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L 12436-63 EWP(j)/EPF(c)/EWT(m)/BDS ASD Pc-4/Pr-4 RM/WW

ACCESSION NR: AP3001156 S/0190/63/005/006/0846/0849

68
67

AUTHOR: Kocheshkov, K. A.; Kargin, V. A.; Sheverdina, N. I.; Sogolova, T. I.; Paleyeva, I. Ye.; Paleyev, O. A.

TITLE: Polymers of ethylene prepared by means of organocadmium-titanium tetrachloride mixtures

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 5, no. 6, 1963, 846-849

TOPIC TAGS: polymers, ethylene, organocadmium compounds, titanium tetrachloride, polyethylene, dioxanates

ABSTRACT: The polymerization of ethylene was conducted in a reactor filled with ethylene gas to which were added 300 ml of hexane and from 0.025 to 0.007 Mol/liter of an organic cadmium compound, cooled to -30C, and followed by dropwise addition, under constant stirring, of a titanium tetrachloride solution in hexane, in a ratio C-Me/ $TiCl_4$ = 1/1. The highest yields were obtained with $(n\text{-}C_4H_9)_2Cd$ and $(p\text{-}CH_3C_6H_4)_2Cd$, and it was observed that complexes of the cadmium compounds with dioxane were equally effective. In comparing the polymerization processes conducted with diphenylcadmium and phenylcadmiumiodide it was found that the yield of an essentially similar polyethylene amounted in the

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latter case to only one-half of the one obtained with diphenylcadmium, thus revealing the equivalency of the same radicals in the organometallic component in the catalyst and the essential role played by their number. The obtained polyethylenes were essentially white powders. Thermomechanical studies were conducted on films obtained at 180-185C and 90-100 atm, which were stretched in one direction. It was found that the polymers possessed sufficiently high values of recrystallization stress and tensile strength and high stretch and softening point values, the latter in the 130-135C range. Orig. art. has: 2 tables.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-Chemical Institute)

SUBMITTED: 25Nov61 DATE ACQ: 01Jul63 ENCL: 00

SUB CODE: 00 NO REF SOV: 006 OTHER: 005

Card 2/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

LODOCHNIKOVA, V.I.; PANOV, Ye.M.; KOCHESHKOV, K.A.

Para-anisil derivatives of the $ArPbX_3$ class. Zhur.ob.khim. 33 no.4: 1199-1201 Ap '63. (MIRA 16:5)

(Anisil) (Lead organic compounds)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

SLOVOKHOTOVA, N.A.; FAYZI, N.A.; ZEMLYANSKIY, N.N.; PANOV, Ye.M.; KOCHESHKOV, K.A.

Structure of some organotin salts of carboxylic acids. Zhur. ob. khim. 33 no.8:2610-2613 Ag '63. (MIRA 16:11)

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

S/020/63/149/002/015/028
B108/B186

AUTHORS: Zemlyanskiy, N. I., Panov, Ye. M., Slovokhotova, N. A., Shamagina, O. P., Kocheshkov, K. A., Corresponding Member AS USSR

TITLE: Stepwise formation of compounds with a stannoxane bond and reactive end groups

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 2, 1963, 312 - 315

TEXT: It was found in earlier work (K. A. Kocheshkov et al. Izv. AN SSSR, OKhN, 1961, no. 12, 2255) that the hydrolysis of the tin salts of organic acids with a definite quantity of water in the presence of diazo alkanes proceeds according to the equation

$$2R_2Sn(OOCCH_3)_2 + 2CH_2N_2 + H_2O \longrightarrow CH_3COO\cdot Sn(R)_2OSn(R)_2OOCCH_3 + 2CH_3COOCH_3 + 2N_2$$

This process makes it possible to obtain linear compounds with active end groups. It is shown here how, by varying the quantity of water and diazo methane, it is possible to terminate the progression of reactions monomer ⟶ dimer ⟶ tetramer ⟶ octamer ⟶ hexadecamer at any stage.

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S/020/63/149/002/015/028
B108/B186

Stepwise formation of compounds...

The infrared spectra of the compounds with a stannoxane bond were examined, the molecular weight, the temperatures of boiling, melting, and decomposition were determined. At slightly increased temperatures (40 - 45° C) it is possible to obtain stannoxanes also of higher molecular weight. There are 1 figure and 1 table.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute imeni L. Ya. Karpov)

SUBMITTED: November 22, 1962

Card 2/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

GOLOVANOV, I.B.; SIMONOV, A.P.; PISKUNOV, A.K.; TALALAYEVA, T.V.; TSAREVA, G.V.; KOCHESHKOV, K.A.

Nuclear magnetic resonance spectra and ebullioscopy of lithium alcoholates. Dokl. AN SSSR 149 no.4:835-837 Ap '63. (MIRA 16:3)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. 2. Chlen-korrespondent AN SSSR (for Kocheshkov).
(Lithium alcoholates--Spectra) (Ebullition)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

RODIONOV, A.N.; TALALAYEVA, T.V.; SHIGORIN, D.N.; TYUMOFEYUK, G.N.; KOCHESHKOV, K.A.

Structure of complexes formed by aliphatic organolithium compounds. Dokl. AN SSSR 151 no.5:1131-1134 Ag '63. (MIRA 16:9)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. 2. Chlen-korrespondent AN SSSR (for Kocheshkov).
(Lithium organic compounds) (Chemical structure)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

TALALAYEVA, T.V.; RODIONOV, A.N.; KOCHESHKOV, K.A.

Synthesis of deuterio-substituted organolithium compounds. Dokl. AN SSSR 152 no.1:122-123 S '63. (MIRA 16:9)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. 2. Chlen-korrespondent AN SSSR (for Kocheshkov).
(Lithium organic compounds) (Deuterium compounds)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

VIKTOROVA, I.M.; SHEVERDINA, N.I.; DELINSKAYA, Ye.D.; KOCHESHKOV, K.A.

Organogallium compounds of the Ar_3Ga class and their dioxanates. Dokl. AN SSSR 152 no.3:609-610 S '63. (MIRA 16:12)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. 2. Chlen-korrespondent AN SSSR (for Kocheshkov).

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

VASIL'YEVA, V.N.; KOCHESHKOV, K.A.

Photoisomerization of α,α'-difluorostilbene. Dokl. AN SSSR 153 no.6:1325-1326 D '63. (MIRA 17:1)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova. 2. Chlen-korrespondent AN SSSR (for Kocheshkov).

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

NESMEYANOV, Aleksandr Nikolayevich; SOKOLIK, Rozaliya Abramovna; KOCHESHKOV, K.A., otv. red.; OKHLOBYSTIN, O.Yu., red.; NOVIKOV, N.D., tekhn. red.

[Methods of metallo-organic chemistry; boron, aluminum, gallium, indium, thallium] Metody elementoorganicheskoi khimii; bor, aliuminii, galii, indii, talliii. Moskva, Izd-vo "Nauka," 1964. 499 p. (MIRA 17:4)

1. Chlen-korrespondent AN SSSR (for Kocheshkov).

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

TALALAYEVA, T. V.; TSAREVA, G. V.; SIMONOV, A. P.; KOCHESHKOV, K. A.

Synthesis and structure of soluble lithium alcoholates. Izv AN SSSR Ser Khim no. 4:638-644 Ap '64. (MIRA 17:5)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

TALALAYEVA, T.V.; KOCHESHKOV, K.A.

Method of synthesis of ethyllithium in argon atmosphere.
Izv.AN.SSSR.Ser.khim. no. 5:855-860 My '64. (MIRA 17:6)

1. Fiziko-khimicheskiy institut im.L.Ya.Karpova.

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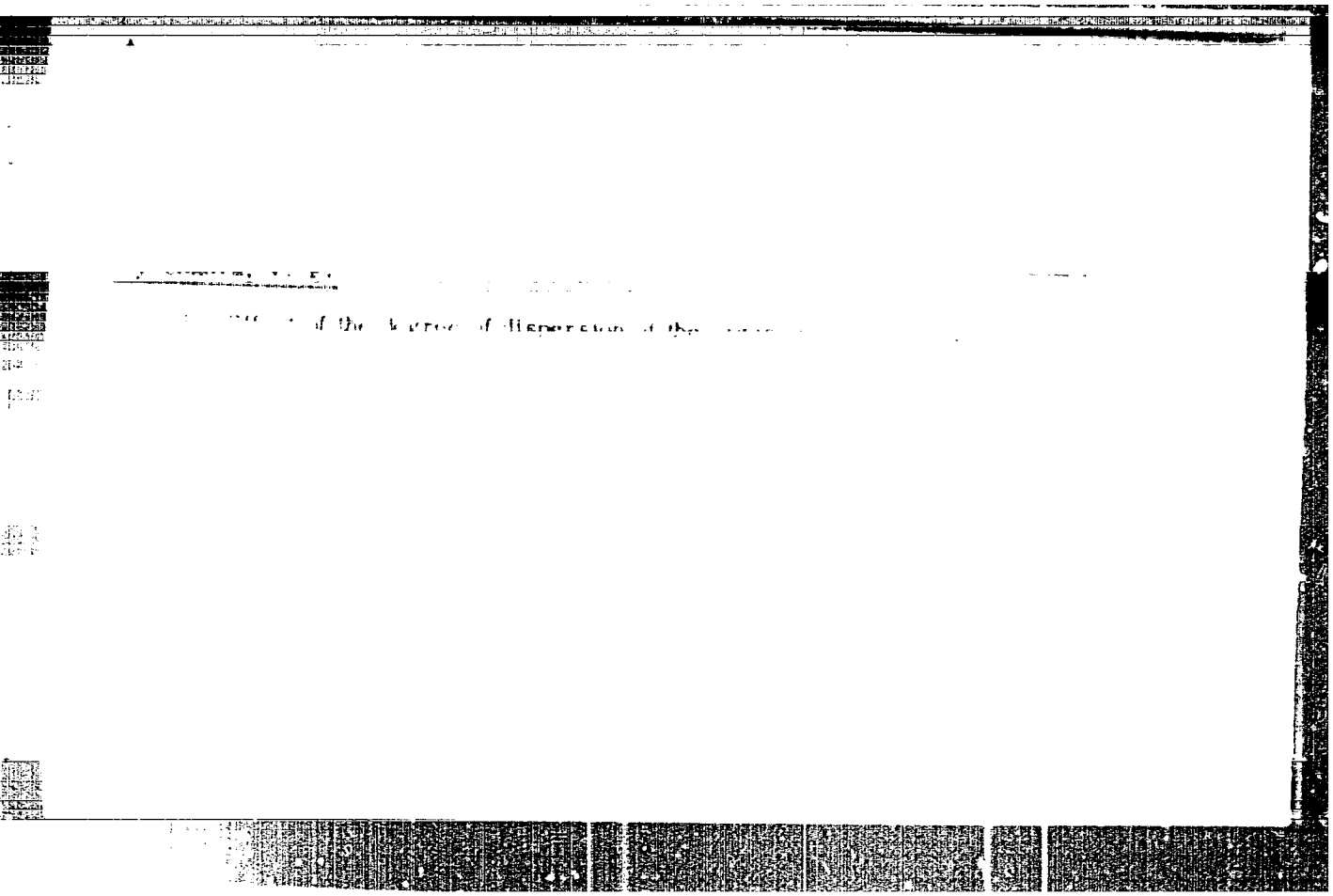

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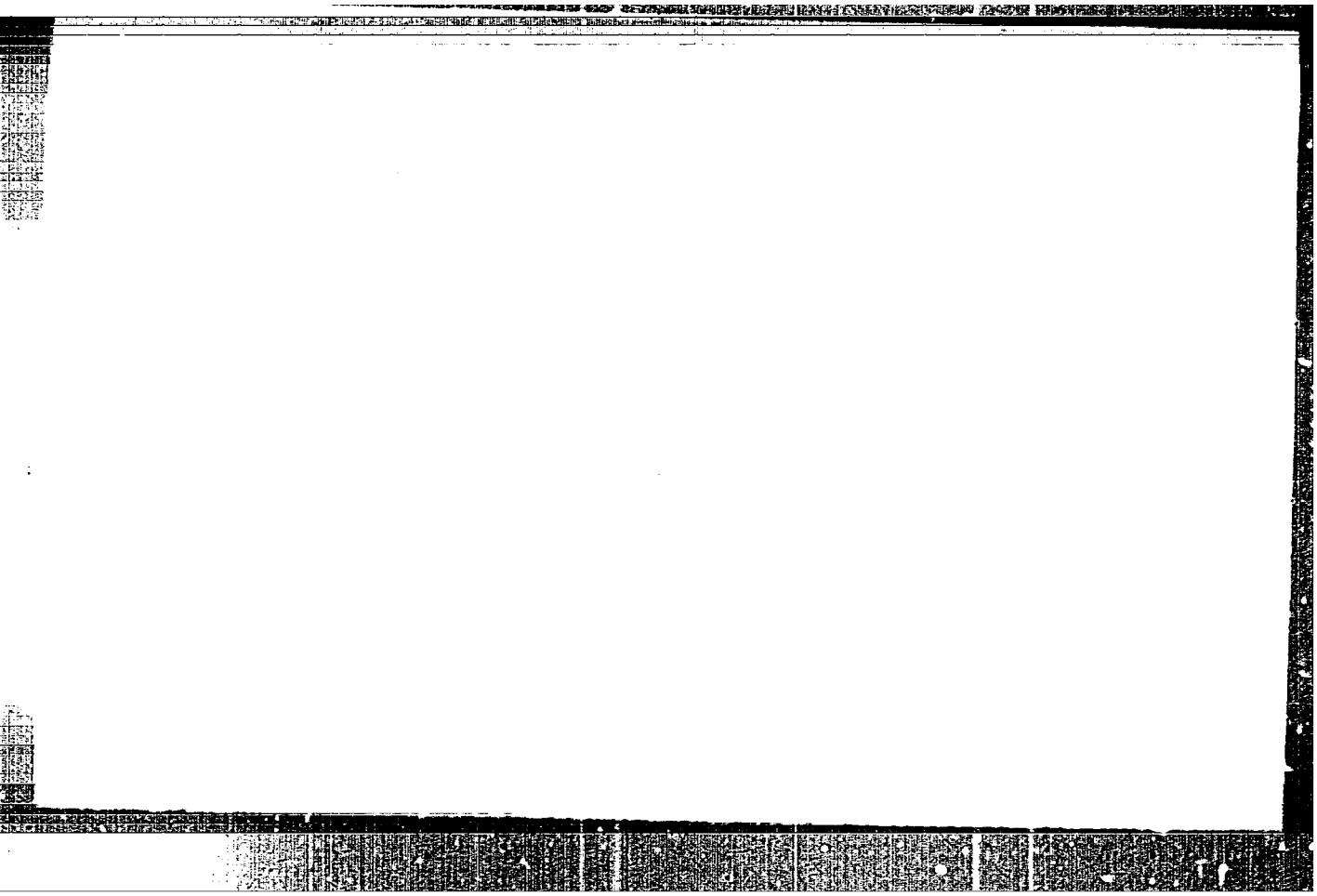

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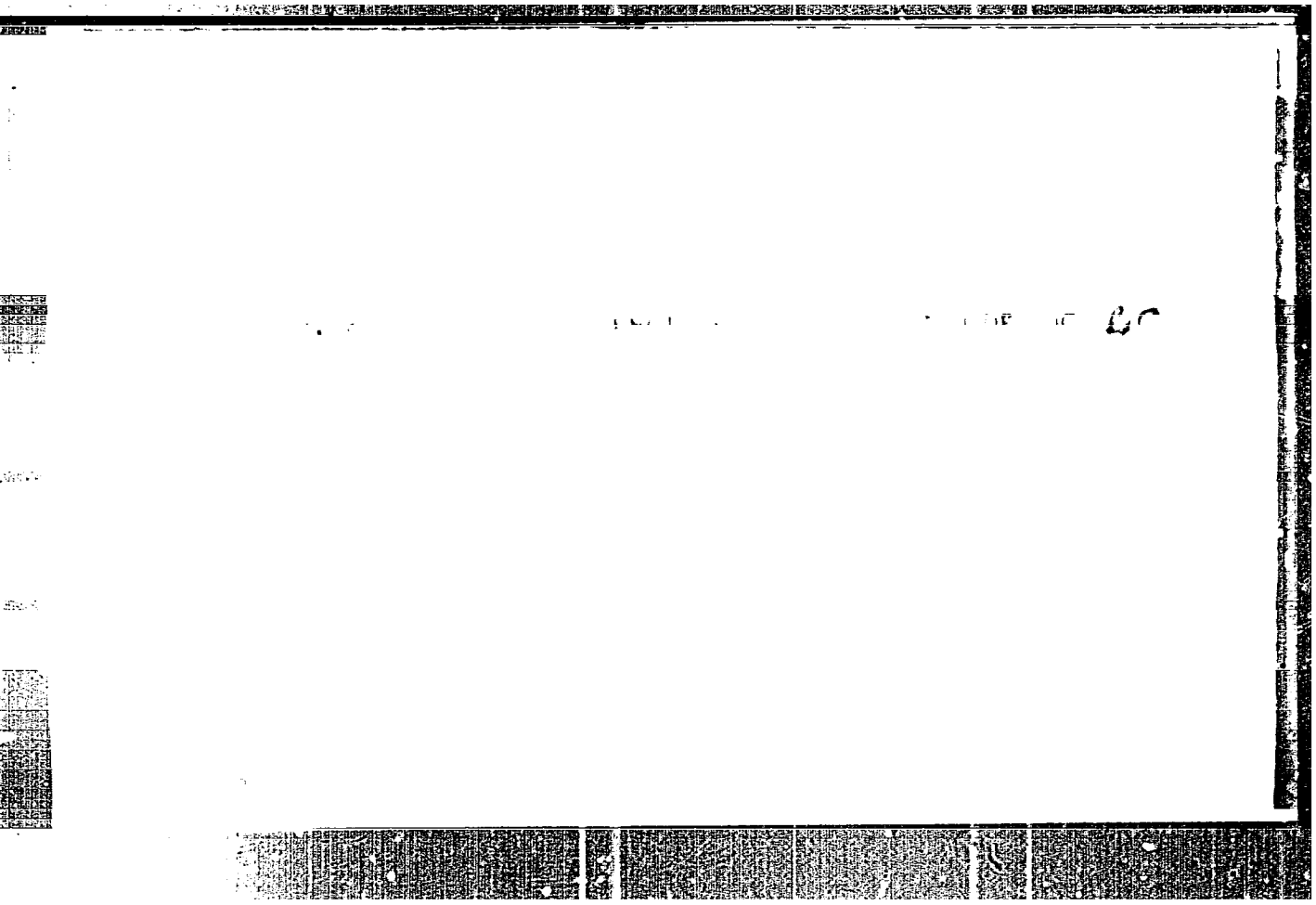

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

LODOCHNIKOVA, V.I.; PANOV, Ye.M.; KOCHESHKOV, K.A.

Reactivity of $ArPbX_3$ compounds. Reaction with $(C_6H_5)_3Sb$.
Zhur. ob. khim. 34 no. 3:946-949 Mr '64. (MIRA 17:6)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova i Sverdlovskiy gosudarstvennyy meditsinskiy institut.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

TALALAYEVA, T.V.; RODIONOV, A.N.; KOCHESHKOV, K.A.

Mixed complexes of phenyllithium, methyllithium, n-butyllithium, and lithium halides. Dokl. AN SSSR 154 no.1:174-177 Ja'64. (MIRA 17:2)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova.
2. Chlen-korrespondent AN SSSR (for Kocheshkov).

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

TALALAYEVA, T.V.; PETRIY, O.P.; TIMOFEYUK, G.V.; ZIMIN, A.V.; KOCHESHKOV, K.A.

Synthesis of α,α'-difluoro-α,α'-dialkyl ethylenes by means of organolithium compounds. Dokl. AN SSSR 154 no.2:398-400 Ja'64. (MIRA 17:2)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova.
2. Chlen-korrespondent AN SSSR (for Kocheshkov)..

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

SHEVERDINA, N.I.; PALEYEVA, I. Ye.; ZAYTSEVA, N.A.; KOCHESKHKOV, K.A.

Preparation of R_2Zn-type organozinc compounds in the aromatic, heterocyclic, and aliphatic-aromatic series by means of the Grignard reagent. Dokl. AN SSSR 155 no. 3:623-625 Mr '64. (MIRA 17:5)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. 2. Chlen-korrespondent AN SSSR (for Kocheshkov).

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

ZEMLYANSKIY, N. N.; COL'DSHTEYN, I. P.; GUR'YANOVA, Ye. N.; PANOV, Ye. M.; SLOVOKHOTOVA, N. A.; KOCHESHKOV, K. A.

Structure of compounds with a stannoxane bond studied by means of dipole moments and infrared spectra. Dokl. AN SSSR 156 no. 1:131-134 My '64. (MIRA 17:5)

1. Fiziko-khimicheskiy institut im. L. Ya. Karpova. 2. Chlen-korrespondent AN SSSR (for Kocheshkov).

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

PALEYEVA, I.Ye.; SHEVERDINA, N.I.; KOCHESHKOV, K.A.

Asymmetric aromatic organozinc and organocadmium compounds of the type ArMeAr'. Dokl. AN SSSR 157 no.3:626-628 Jl '64. (MIRA 17:7)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova. 2. Chlen-korrespondent AN SSSR (for Kocheshkov).

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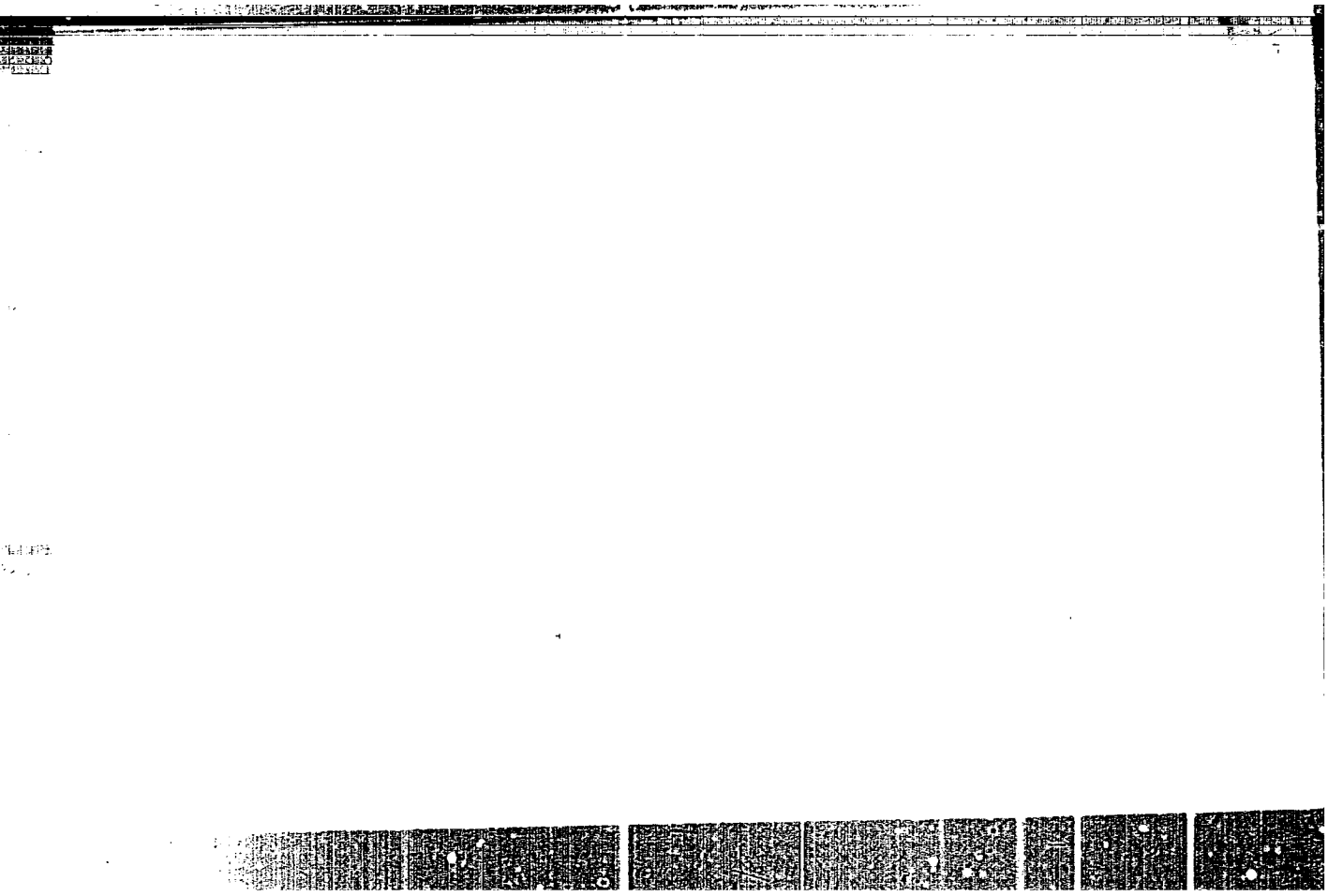

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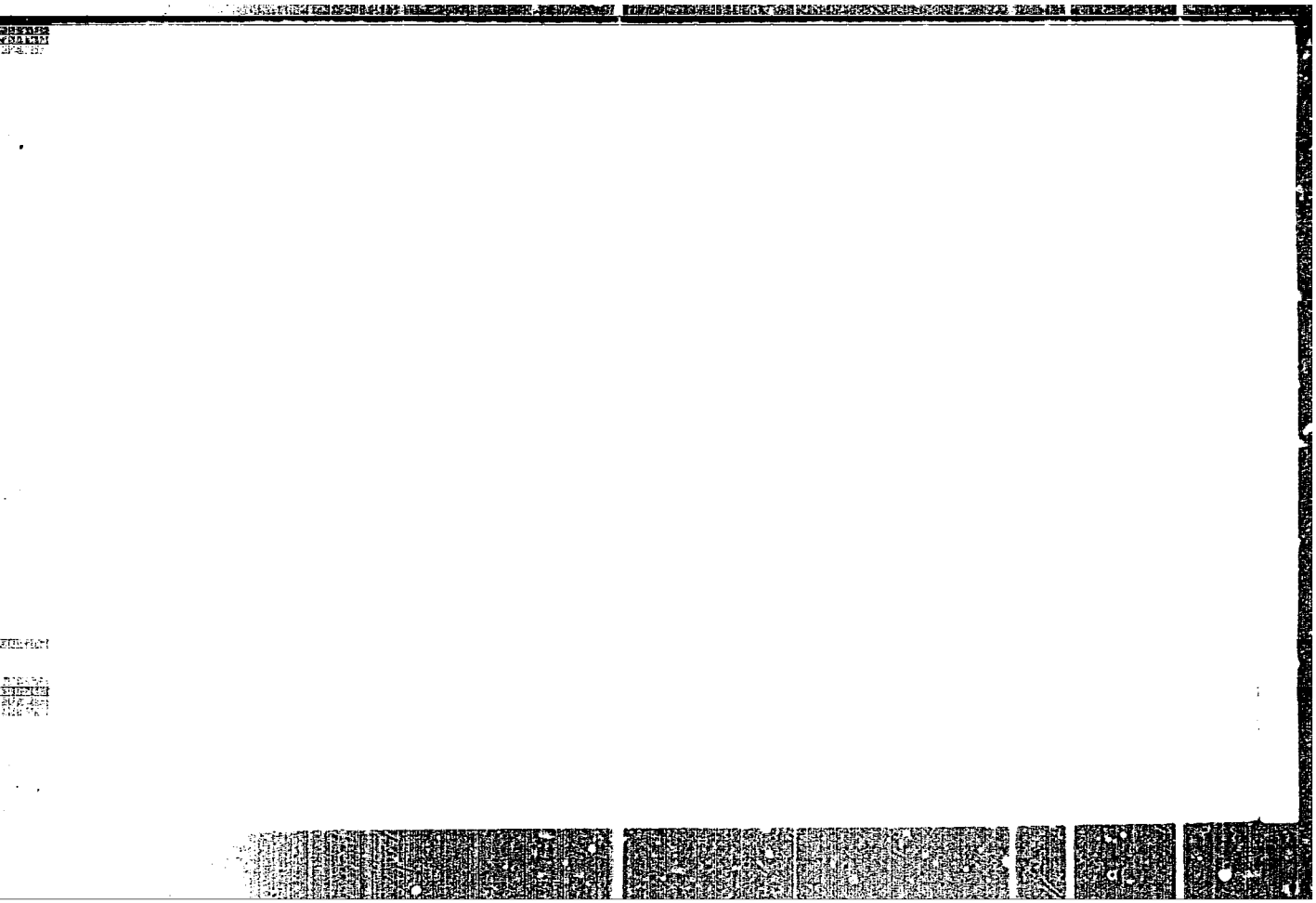

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

PALEYEV, O.A.; KOCHESHKOV, K.A.; KARGIN, V.A.; SOGOLOVA, T.I.; HICHKOVA, V.F.

Effect of the dispersity of the metallo-organic component of a mixed catalyst on the polymerization of ethylene. Vysokom. soed. 6 no.11:1955-1958 N '64 (MIRA 18:2)

1. Fiziko-khimicheskiy institut imeni Karpova, Moskva.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

RODIONOV, A.N.; TIMOFEYUK, G.V.; TALALAYEVA, T.V.; SHIGORIN, D.N.; KOCHESHKOV, K.A.

Infrared spectra of some acetylides of lithium, sodium, and potassium. Izv. AN SSSR Ser. khim. no.1:42-46 '65. (MIRA 18:2)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova.

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

ZEMLYANSKIY, N.N.; [illegible] V.N.; FANOV, Ye.M.; KOCHESHKOV, K.A.

Synthesis of plumbanes of the $(RCOOPbAr_2)_2O$ type. Zhur. ob. khim. 35 no.5:843-845 My '65. (MIRA 18:6)

1. Fiziko-khimicheskiy institut imeni Karpova, Moskva.

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

ZEMLYANSKIY, N.N.; IVANOV, Ye.M.; SHAMAGINA, O.P.; KOCHESHKOV, K.A.

Synthesis of tin oxanes ROCO[Sn(C_4H_2)$_2$O] OCR. Zhur. ob. khim. 35 no.6:1029-1031 Je '65. (MIRA 18:6)

1. Fiziko-khimicheskiy institut imeni Karpova.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

LODOCHNIKOVA, V.I.; PANOV, Ye.M.; KOCHESHKOV, K.A.

Para-iodophenyl derivatives of the aryl lead triester type.
Zhur. ob. khim. 34 no.12:4022-4024 D '64 (MIRA 18:1)

1. Fiziko-khimicheskiy institut imeni L. Ya. Karpova i Sverdlovskiy gosudarstvennyy meditsinskiy institut.

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOTON, M.M.; KOCHESHKOV, K.A.; GORSHKOVA, I.A.; DOKUKINA, A.P.; PANOV, Ye.M.

Copolymerization of α,β,β-halo-substituted p-divinylbenzenes with styrene. Dokl. AN SSSR 158 no.5:1120-1122 O '64.
(MIRA 17:10)

1. Institute vysokomolekulyarnykh soyedineniy AN SSSR, Leningradskiy politekhnicheskiy institut im. M.I.Kalinina i Fiziko-khimicheskiy institut im. L.Ya.Karpova. 2. Chleny-korrespondenty AN SSSR (for Koton, Kocheshkov).

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

PALEYEVA, I.Ye.; SHEVERDINA, N.I.; ABRAMOVA, L.V.; KOCHESHKOV, K.A.

Chemical composition of the "Blaise reagent". Dokl. AN SSSR 159 no.3:609-611 N '64 (MIRA 18:1)

1. Fiziko-khimicheskiy institut imeni L. Ya. Karpova 2. Chlen korrespondent AN SSSR (for Kocheshkov).

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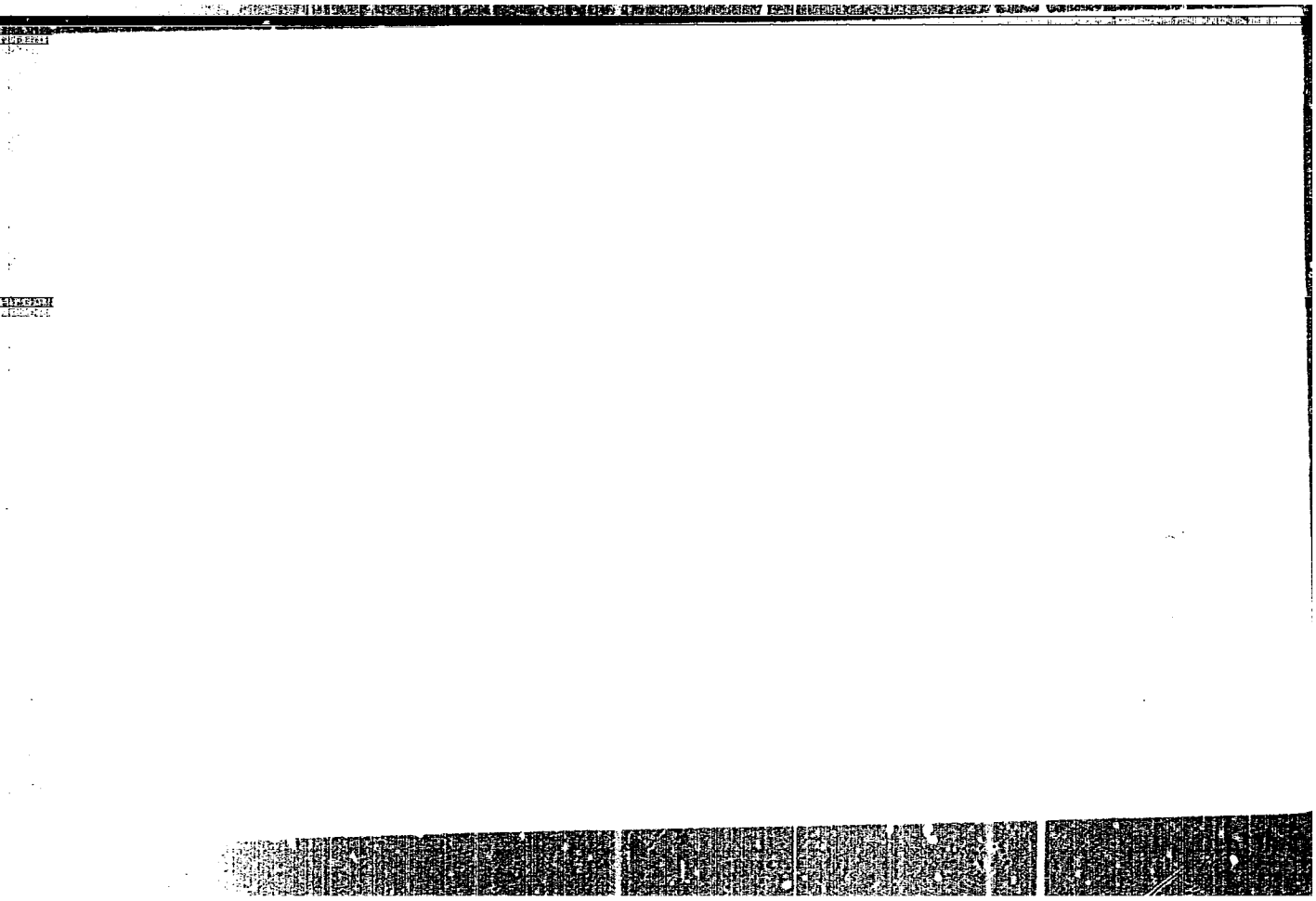

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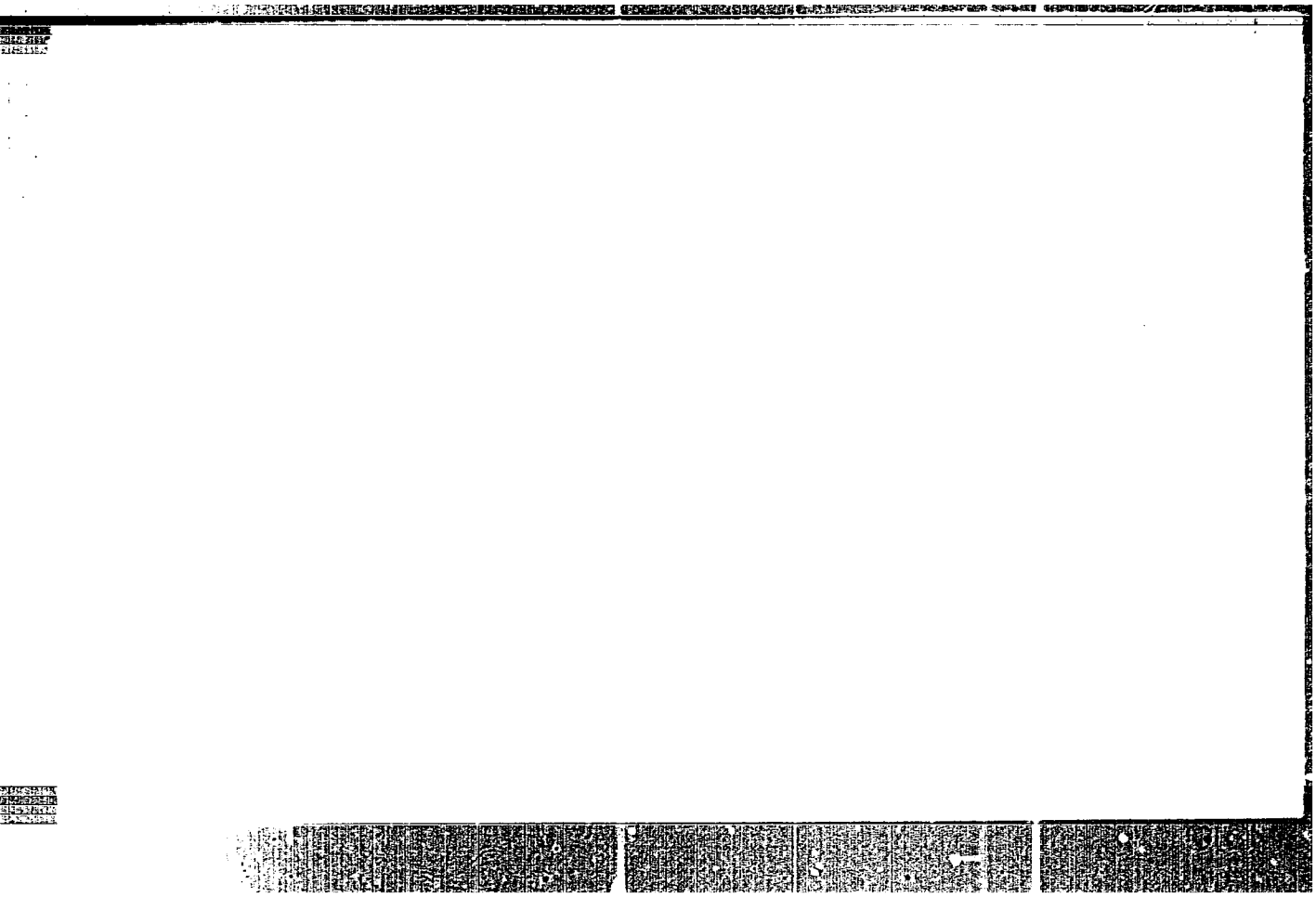

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

SHEVERDINA, Nataliya Ivanovna; KOCHESHKOV, Ksenofont Aleksandrovich. Prinimala uchastiye ABRAMOVA, L.V.; NESMEYANOV, A.N., akademik, otv. red.; RODICHEV, A.N., red.

[Methods of the chemistry of organometallic compounds; zinc, cadmium] Metody elementno-organicheskoi khimii; tsink kadmii. Moskva, Nauka, 1964. 235 p. (MIRA 18:2)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

AVERBUKH, B.S.; ABRAMOVA, L.V.; BREGER, A.KH.; VAYNSHTEYN, B.I.; GOL'DIN, V.A.; KOCHESHKOV, K.A.; SYRKUS, N.P.; SHALYAPIN, N.K.; SHEVERDINA, N.I.

Determination of the optimum conditions for the reaction of radiation-chemical synthesis of dibutyltin dibromide. Zhur. fiz. khim. 38 no.10: 2445-2448 O '64. (MIRA 18:2)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

PANOV, Ye.M.; SOROKINA, R.S.; KOCHESHKOV, K.A.

Fluorine-containing divinylbenzenes. Zhur. ob. khim. 35 no.8:1426-1429 Ag '65. (MIRA 18:8)

1. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut imeni L.Ya. Karpova, Moskva.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

GOL'DSHTEYN, I.P.; GUR'YANOVA, Ye.N.; KOCHESHKOV, K.A.

Polarity and strength of intermolecular bonds in complexes formed by tin tetrachloride with organic sulfides. Dokl. AN SSSR 161 no.1: 111-114 Mr '65. (MIRA 18:3)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova. 2. Chlen-korrespondent AN SSSR (for Kocheshkov).

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

RODIONOV, A.N.; TALALAYEVA, T.V.; ZHIGORIN, D.N.; RODIONOVA, G.N.; KOCHESHKOV, K.A.

Infrared spectra of isotope-substituted ethyllithium molecules. Izv. AN SSSR. Ser. khim. no.4:604-610 '65. (MIRA 18:5)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

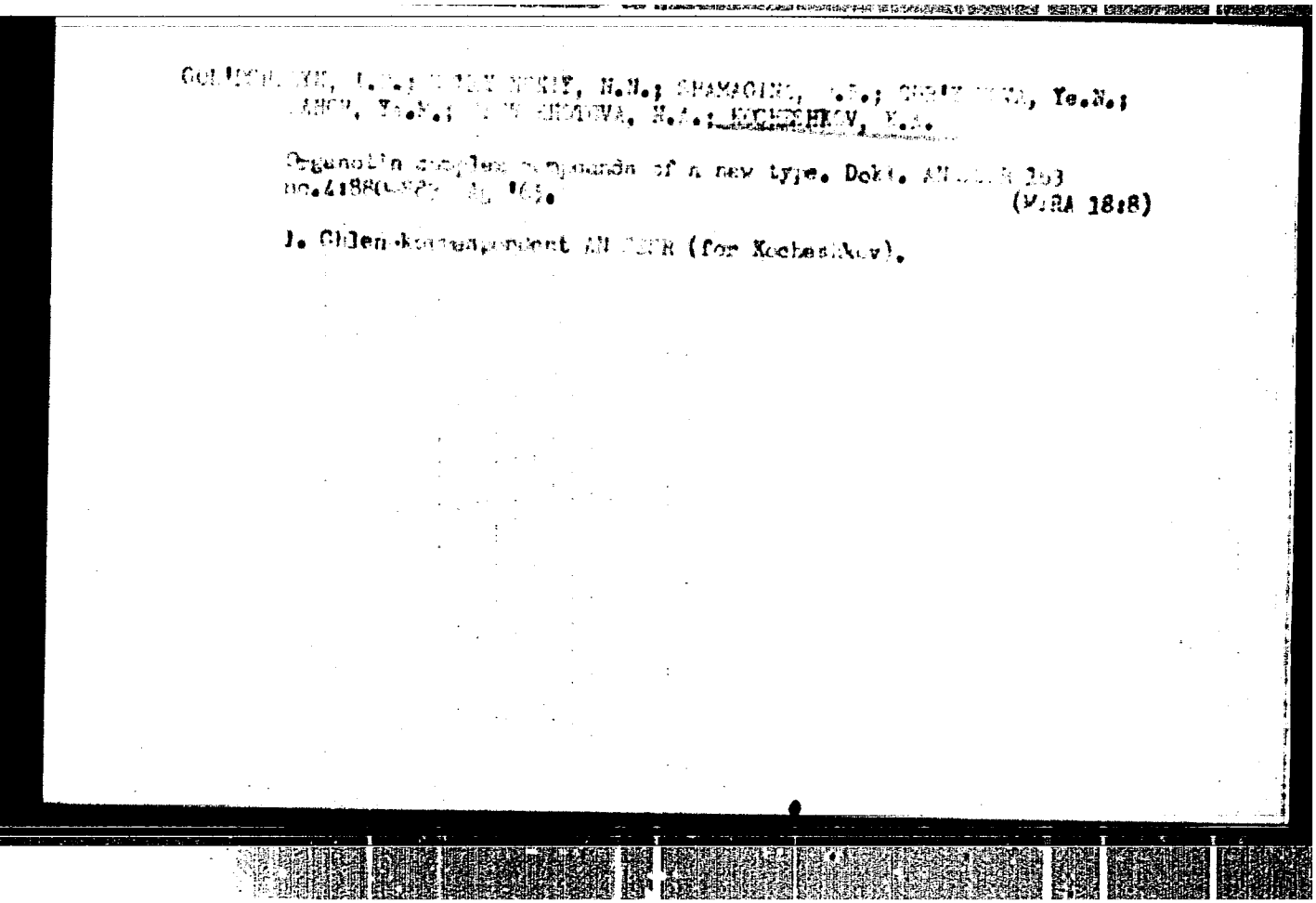
SOROKINA, R.S.; PANOV, Ye.M.; KOCHESHKOV, K.A.

Synthesis of styrenes with fluorine in the vinyl group and organometallic substituents in the ring. Zhur. ob. khim. 35 no.9:1625-1628 S '65. (MIRA 18:10)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0



[illegible], I.[illegible]; [illegible] N.N.; SHAMAGINA, [illegible].; [illegible], Ye.N.; [illegible], Ye.N.; [illegible] NOVIKOVA, N.A.; KOCHETKOV, N.K.

Organolithium compounds containing nitrogen of a new type. Dokl. AN [illegible] 153 no.4:884-[illegible] (MIRA 18:8).

1. Chlen-korrespondent AN SSSR (for Kochetkov).

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

MAKAROVA, Lyubov' Gennadiyevna; NESMEYANOV, Aleksandr Nikolayevich; KOCHESHKOV, K.A., otv. red.; RODIONOV, A.N., red.

[Methods of organometallic chemistry; mercury] Metody elementoorganicheskoi khimii; rtut'. Moskva, Nauka, 1965. 438 p. (MIRA 18:7)

1. Chlen-korrespondent AN SSSR (for Kocheshkov).

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

L 17714-66 EWP(j)/EWT(m)/T RM
ACC NR: AP6003405 (A) SOURCE CODE: UR/0190/66/008/001/0008/0010

AUTHORS: Paleyev, O. A.; Sheverdina, N. I.; Sogolova, T. I.; Paleyeva, I. Ye.; Kargin, V. A.; Kocheshkov, K. A.

ORG: Physico-Chemical Institute im. L. Ye. Karpov (Fiziko-khimicheskiy institut)

TITLE: Application of $(n\text{-}C_3H_7)_2Cd$, $n\text{-}C_3H_7CdCl$ and $n\text{-}C_3H_7CdI$ in polymerization of ethylene

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 8-10

TOPIC TAGS: polyethylene plastic, organocadmium compound, polymerization catalyst

ABSTRACT: In this work, $(n\text{-}C_3H_7)_2Cd$ (I), $n\text{-}C_3H_7CdCl$ (II), and $n\text{-}C_3H_7CdI$ (III) in mixtures with $TiCl_4$ were investigated as polymerization catalysts for propylene, substituting for the generally used organic aluminum compounds. This is an expansion of the earlier published study by the authors on organic cadmium compounds as components of mixed polymerization catalysts (Vysokomolek. soyed., 5, 846, 1963). II and III are white solids insoluble in n-hexane (solvent used in this polymerization), have poorly developed surface structure and, therefore, are

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L 17714-66
ACC NR: AP6003405

inefficient as catalysts. I is readily soluble in organic solvents and was found to be a very effective catalyst at very low concentrations (1 g mole per 11 kg of polyethylene). The product prepared with I (softening point 137--139C) has high tensile strength (4400--4500 kg/cm^2), and may serve in the preparation of strong oriented films and fibers. Orig. art. has: 1 table.

SUB CODE: 07/ SUBM DATE: 28Jan65/ ORIG REF: 004/ OTH REF: 001

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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

SIMONOV, A.P.; SHIGORIN, D.N.; TSAREVA, G.V.; TALALAYEVA, T.V.; KOCHESHKOV, K.A.

Infrared absorption spectra and the structure of some simple lithium, sodium, and potassium alcoholates. Zhur. prikl. spekt. 3 no. 6:531-537 D '65 (MIRA 19:1)

1. Submitted August 18, 1964.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

PALEYEV, O.A.; SHEVERDINA, N.I.; SOCOLOVA, T.I.; PALEYEVA, I. Ye.; KARGIN, V.A.; KOCHESHKOV, K.A.

Using $(n\text{-}C_3H_7)_2Cd$, $n\text{-}C_3H_7CdCl$, and $n\text{-}C_3H_7CdI$ in ethylene polymerization. Vysokom. soed. 8 no. 1:8-10 Ja '66 (MIRA 19:1)

1. Fiziko-khimicheskiy institut imeni Karpova. Submitted January 28, 1965.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

TALAYEVA, T.V.; PETRIY, O.P.; ZIMIN, A.V.; KOCHESHKOV, K.A.

Use of dilithium compounds for the synthesis of fluorinated unsaturated compounds. Izv. AN SSSR. Ser. khim. no.8:1402-1405 '65. (MIRA 18:9)

1. Fiziko-khimicheskiy institut im. A.Ya. Karpova.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

L 5062-66 EWT(m)/EPF(c)/EWP(j) RPL WW/RM

ACCESSION NR: AP5025509 UR/0062/65/000/009/1607/1613
547.1'13+547.362+546.34

AUTHOR: Talalayeva, T. V.; Timofeyuk, G. V.; Rodionov, A. N.; Kocheshkov, K. A.

TITLE: Lithium acetylenides

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 9, 1965, 1607-1613

TOPIC TAGS: organolithium compound, acetylene, benzene, hexane, ether, lithium

ABSTRACT: The authors synthesized crystalline lithium acetylenides in benzene, hexane, and ether in the range of 0 to -50C, using acetylene alkylacetylenes, and solutions of ethyllithium, n-butyllithium, n-amyllithium, phenyllithium, and p-tolyllithium. The products were analyzed for lithium, and their IR spectra were taken. In some cases, the compounds obtained were decomposed with heavy water, and the deuterated products were studied. It was thus shown that when acetylene reacts with solutions of organolithium compounds, lithium acetylenide is formed. When acetylene reacts with aliphatic organolithium compounds in hexane at 0 - 25C, crystalline lithium acetylenide is formed in 75 - 80% yield; when alkylacetylenes react with these compounds at -50C, lithium alkylacety-

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L 5062-66

ACCESSION NR: AP5026509

4

lenides are formed in 75 - 90% yield. To refine the positions of the main bands in the IR spectra, isotope-substituted lithium acetylenides were synthesized by using lithium-6 and euterium, and the IR spectra of the products were recorded. Lithium acetylenide is stable on standing, apparently because stable complexes are formed between its molecules.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute) 44,55

SUBMITTED: 25Jun63 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 009 OTHER: 012

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

L 3213-66 EWT(m)/EWP(j)/T/EWP(t)/EWP(b) IJP(c) JD/JW/RM

ACCESSION NR: AP5009223 S/0020/65/161/001/0111/0114

AUTHOR: Gol'dshteyn, I. P.; Gur'yanova, Ye. N.; Kocheshkov, K. A. (Corresponding member AN SSSR)

TITLE: Polarity and strength of intermolecular bonds in complexes of tin tetrachloride and organic sulfides

SOURCE: AN SSSR. Doklady, v. 161, no. 1, 1965, 111-114

TOPIC TAGS: polarity, intermolecular bond, tin compound, tin tetrachloride, sulfide, heat of formation, sulfur containing compound, dipole moment

ABSTRACT: Measurements have been made of the heat of formation and dipole moments of complexes of tin tetrachloride with sulfur containing compounds. The dipole moments were determined by dielectrometric titration and the heats of formation by calorimetric titration. To obtain complexes with a 1:2 composition and a known cis-formation, compounds of the following type were used: $R\text{-}S\text{-}(CH_2)_n\text{-}S\text{-}R$ (n = 1,2,3,4,5,6, or 10, and R = C_2H_5 or C_4H_9). It was found that at small concentrations (0.03 g-mole/liter), compounds $SnCl_4 \cdot R\text{-}S\text{-}(CH_2)_n\text{-}S\text{-}R$, where n = 1, 2, or 3, are monomers. Compounds

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ACCESSION NR: AP5009223

with n > 3 are associated. Judging from the values of the dipole moments, such associated compounds have a cyclic structure. Experimental values of the heat of formation $-\Delta H$ (for one Sn...S bond) and the dipole moments $\mu_{Sn...S}$ lie well on a straight line $\mu_{Sn...S}$-($\Delta H_{Sn...S}$). Introducing a correction of ~1 kcal/mole into the experimental values of $-\Delta H$ to take account of the dissociation energy of the complex $SnCl_4$ from benzene, we can speak of a direct proportion between $-\Delta H_{Sn...S}$ and $\mu_{Sn...S}$. The above relationship is obviously general for n, σ -complexes of the donor-acceptor type. It appears that the bonds in compounds of this type are the result of an unshared electron pair in the donor molecule and of the vacant valence orbits in the acceptor molecule. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute)

SUBMITTED: 030ct64 ENCL: 00 SUB CODE: IC, GC

NR REF SOV: 005 OTHER: 004

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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHESHKOV, S.M., inzh.

Increasing the power of a worm reducing gear restricted by heating. Vest.mashinostr. 45 no.11:7-9 N '65.

(MIRA 18:12)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

ROZANOV, N., insh.; KOCHERGIN, N., insh.; ROZENFEL'D, A., insh.; MONFRED, Yu., kand.tekhn.nauk

Prefabricated large-panel apartment houses in the city of Vyksa. Zhil.stroi. no.4/5:5-7 '58. (MIRA 12:6)
(Vyksa--Apartment houses)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

CHURAYAN, A., kand. tekhn. nauk; DZHABUA, Sh., kand. tekhn. nauk; KOCHESHKOV, Ye., inzh.; MAL'TSEV, P., inzh.

Sealed joints of elements of earthquake-proof large-panel buildings. Zhil. stroi. no.12:20-21 '62. (MIRA 16:1)

(Earthquakes and building)
(Building—Details)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

NIKOL'SKIY, V.N., kand. tekhn. nauk; SPIVAK, N.Ya., kand. tekhn. nauk; BAULIN, D.K., inzh.; BUADZE, V.Sh., inzh.; KREYTAN, V.G., kand. tekhn. nauk; PEGNYAKOV, S.I., kand. tekhn. nauk; USOV, A.L., inzh.; KOSHKIN, V.G., kand. tekhn. nauk; MARAVIN, B.L., inzh.; ERENBURG, A.I., inzh.; KOCHESHKOV, V.G., inzh.; RUBANENKO, B.R., glav. red.; ROZANOV, N.P., zam. glav. red.; OKUFRIYEV, I.A., red.; YUDIN, Ye.Ya., red.; NASONOV, V.N., red.; ISIDOROV, V.V., red.; MAKARICHEV, V.V., red.; FINKINSHTEYN, B.A., inzh. red.;

[Prefabricated floor and ceiling structures] Poly i perekrytiia industrial'noi konstruktsii. Moskva, Gosstroiizdat, 1963. 71 p. (MIRA 16:12).
1. Akademiya stroitel'stva i arkhitektury SSSR. TSentral'nyy nauchno-issledovatel'skiy i eksperimental'no-proyektnyy institut industrial'nykh shilykh i massovykh kul'turno-bogatykh zdaniy. 2. Nauchno-issledovatel'skiy institut stroitel'noy fiziki i ograzhdayushchikh konstruktsii (for Nikol'skiy, Usov). 3. TSentral'nyy nauchno-issledovatel'skiy i eksperimental'no-proyektnyy institut industrial'nykh shilykh i massovykh kul'turno-bogatykh zdaniy (for Buadze, Baulin, Spivak, Kreytan, Kocheshkov). 4. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR (for Erenburg).
(Floors) (Ceilings)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

MOROZOV, N.V., kand. tekhn. nauk; MKRTUMYAN, A.K., kand. tekhn. nauk; ANTIPOV, T.P., arkh.; KOCHERSHKOV, V.G., insh.; LISAGOR, I.A., insh.; TSAPLEV, N.N., insh.; IVASHKOVA, V.K., kand.tekhn. nauk; SHIKUNOV, I.Ya., insh.; FILIN, Yu.D., insh.; MOSTAKOV, V.I.; BUBLACHENKO, P.Ye., kand. khim. nauk[deceased]; PANKRATOV, V.F., insh.; RUBANENKO, B.R., glav. red.; ROZANOV, N.P., zam. glav. red.; ONUFRIYEV, I.A., red.; YUDIN, Ye.Ya., red.; NASONOV, V.N., red.; ISIDOROV, V.V., red.; MAKARICHEV, V.V., red.; POLUBNEVA, V.I., red.

[Ways of improving design details for the seams of exterior wall slabs] Puti uluchsheniia konstruktivnykh reshenii stykov panelei naruzhnykh sten. Moskva, TSentr. biuro tekhn. informatsii i nauchno-issl. in-ta organizatsii, mekhanizatsii i tekhn. pomoshchi stroit., 1962. 78 p. (MIRA 16:8)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut industrial'nykh zhilykh i massovykh kul'turno-bytovykh zdaniy (for TSaplev). 2. Nauchno-issledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR, Perëvo (for Mostakov). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR (for Pankratov).

(Walls)

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A.

Die Englisch-Amerikanische Rivalität Auf Den Westeuropäischen Markten. Berlin, Die Wirtschaft, 1954.

246 P. Tables.

Translation From The Russian: Angloamerikanskoye Sopernichestvo Na Rynkakh Zapadnoy Evropy, Moscow, 1952.

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122.36
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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KRASIK, L.B., dotsent; KUZNETSOVA, N.K.; OLIKINA, R.I.; VOROBIOVA, A.N.; KOCHERGINKOVA, Z.V.

Organization and work of sections for premature infants in children's hospitals in the city of Molotov. Vop.okh.mat. i det. 1 no.6:60-64 N-D '56. (MLRA 10:1)

1. Iz kafedry pediatrii (ispolnyayushchiy obyazannosti zaveduyushchego dotsent L.B.Krasik) Molotovskogo meditsinskogo instituta (dir. - prof. I.I.Kositsyn)

(MOLOTOV--INFANTS (PREMATURE))

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

GOLUBEV, V. I.; KOCHNOSTKOV, A. A.

Furnaces---Construction

Three-sectional furnace for burning cut raw peat. 1. Advantages of construction. 2. Performance of the furnace. Tekst. Prom., No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

2

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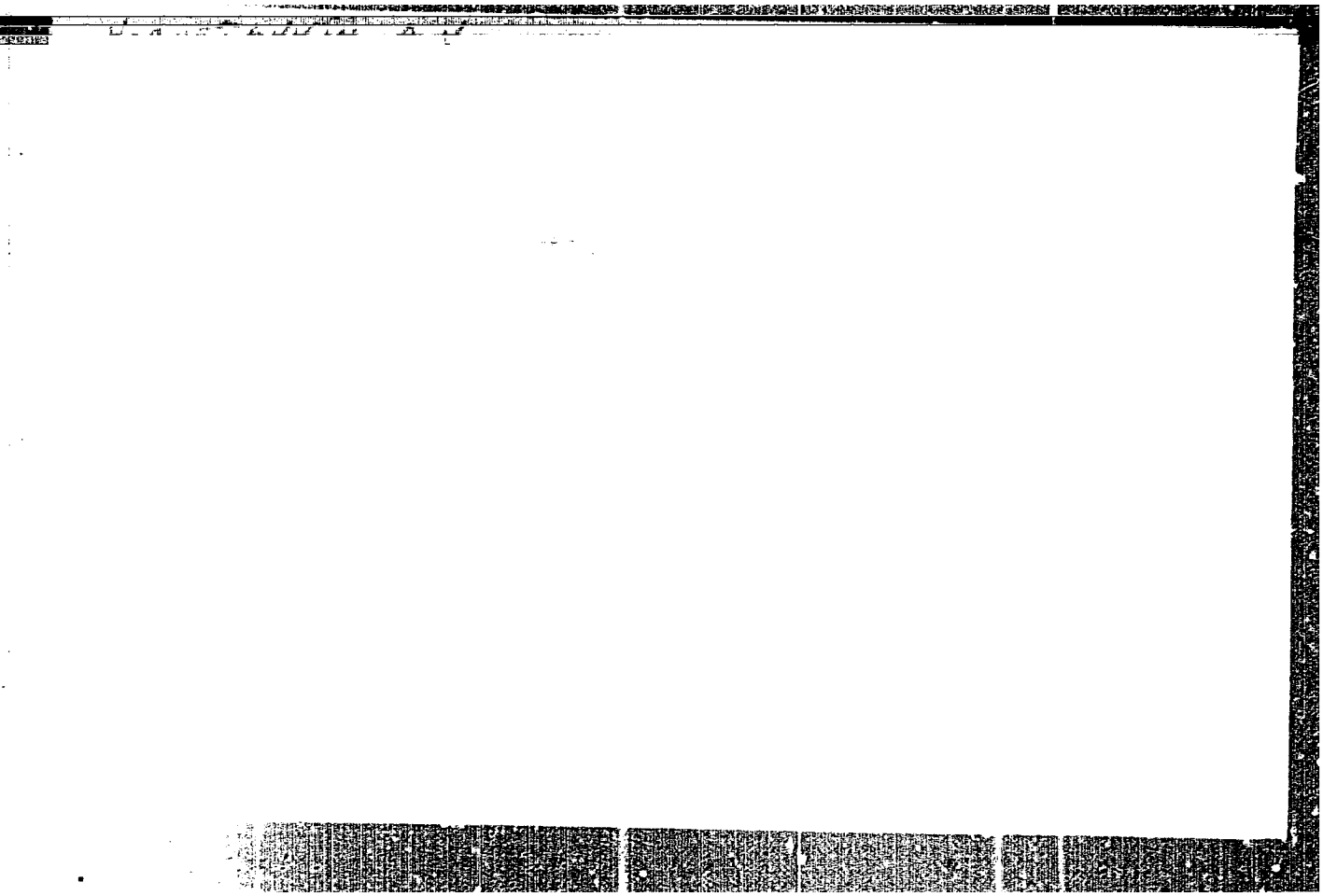
"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0



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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A.

Paper industry - exhibitions

Technical corner. Klub No. 8 14 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1957, Uncl.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A.

Striving for industrial safety. Okh. truda i sots. strakh. no.6:7-10 Je '59. (MIRA 12:10)

1.Zaveduyushchiy otdelom okhrany truda TSentral'nogo komiteta profsoyuza rabochikh lesnoy, bumazhnoy i derevoobrabatyvayushchey promyshlennosti.
(Wood-using industries--Safety measures)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A.

Machinery and equipment for livestock farms. Nauka i pered. op.v sel'khoz. 9 no.8:38-40 Ag '59. (MIRA 12:12)

1. Glavnyy inshener konstruktorskogo byuro Vsesoyuznogo instituta elektrifikatsii sel'skogo khozyaystva.
(Agricultural machinery) (Stock and stockbreeding)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOZLOVSKIY, V., red.; KOCHETKOV, A., red.; KLYUMEL', A., tekhn. red.

[Corn in Soviet Latvia] Kukuruza v Sovetskoi Latvii. Riga, Latviiskoe gos. izd-vo, 1960. 218 p. (MIRA 14:11)
(Latvia—Corn (Maize))

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

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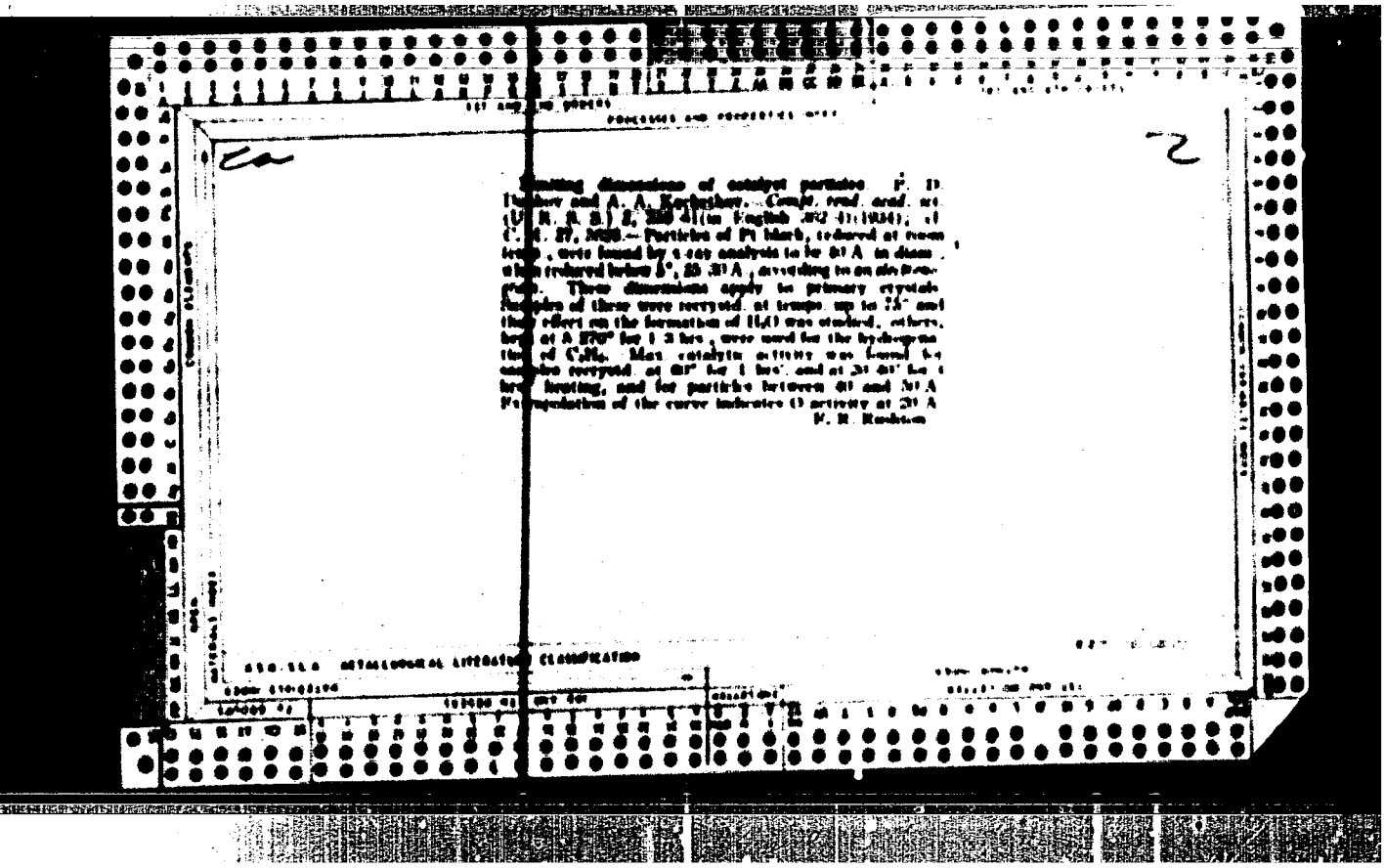

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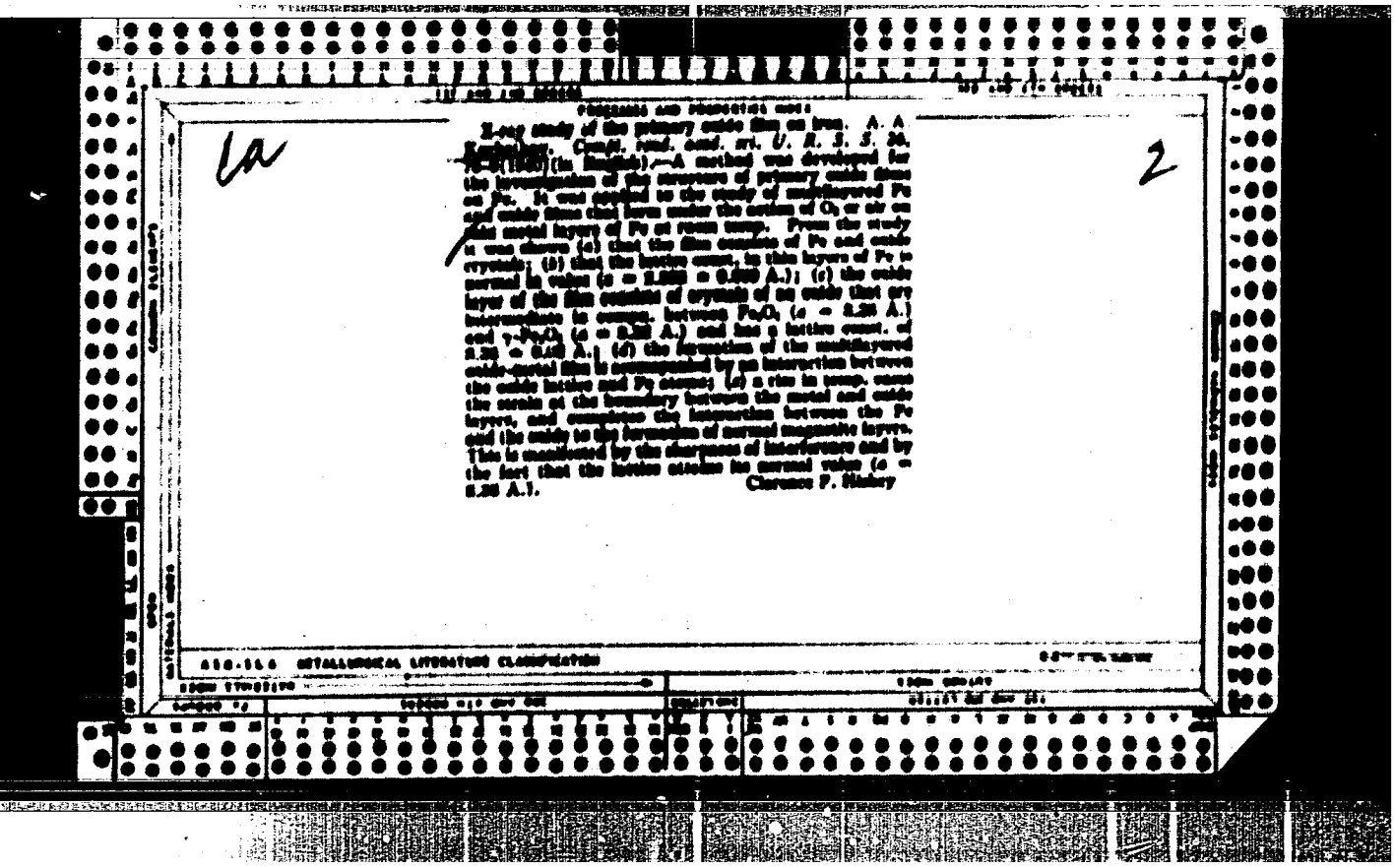

1a

2

X-ray study of the primary oxide film on iron. A. A. [illegible]. Compt. rend. Acad. sci. U. R. S. S. 26, [illegible] (in English).—A method was developed for the investigation of the structure of primary oxide films on Fe. It was applied to the study of underlayered Fe and oxide films that form under the action of O_2 or air on clean metal layers of Fe at room temp. From the study of these films it was observed (a) that the film consists of Fe and oxide crystals; (b) that the lattice const. in thin layers of Fe is normal in value (a_0 = [illegible] A.); (c) the oxide layer of the film consists of crystals of an oxide that are intermediate in compn. between Fe_2O_3 (a_0 = 8.35 A.) and γ-Fe_2O_3 (a_0 = 8.33 A.) and has a lattice const. of [illegible] A.; (d) the formation of the multilayered oxide-metal film is accompanied by an interaction between the oxide lattice and Fe atoms; (e) a rise in temp. causes the oxide at the boundary between the metal and oxide layers, and completes the interaction between the Fe and the oxide in the formation of normal magnetite layers. This is manifested by the sharpness of interference and by the fact that the lattice attains its normal value (a_0 = 8.39 A.).

Clarence F. Hiskey

A10-11A METALLURGICAL LITERATURE CLASSIFICATION

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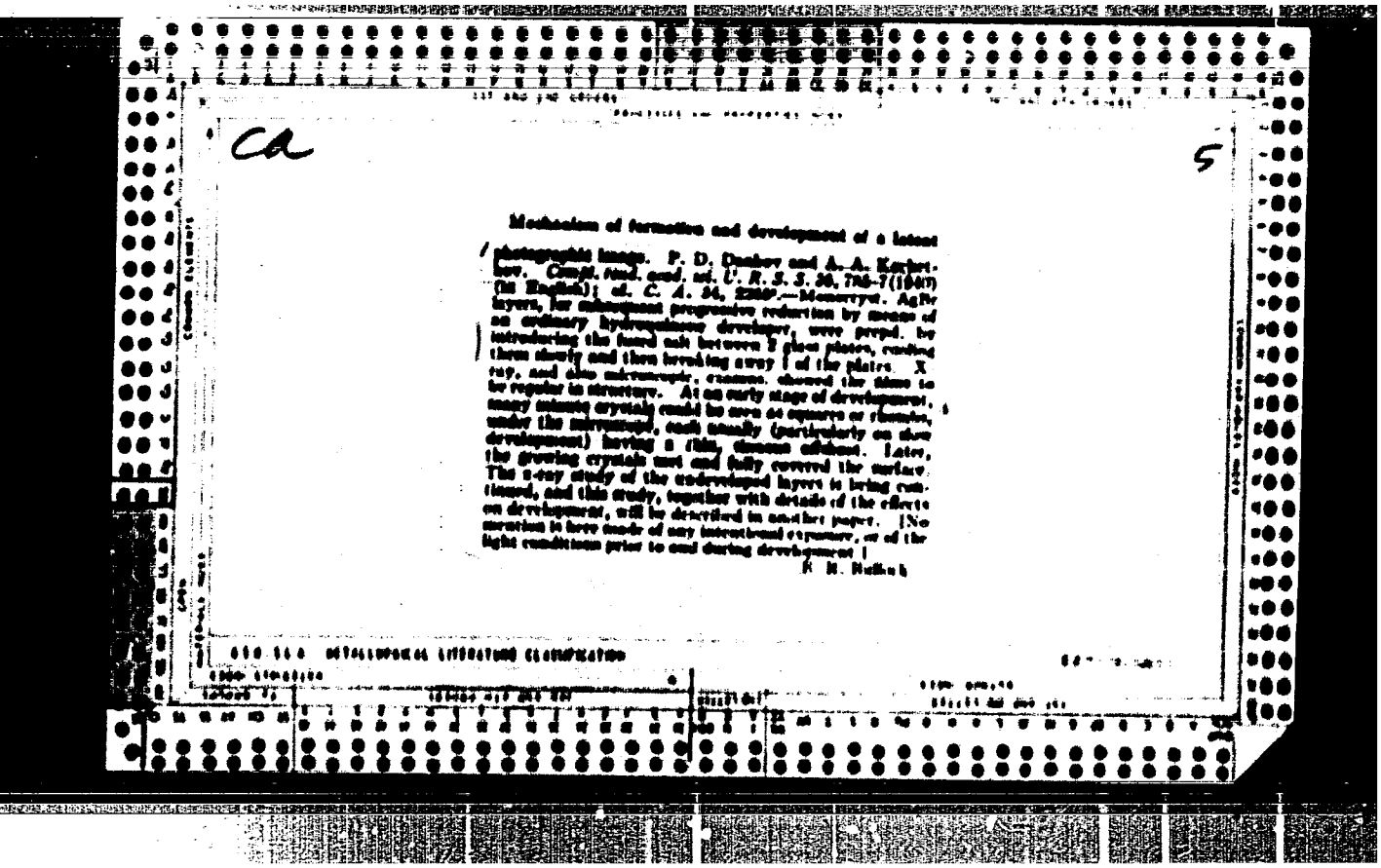
"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0



Ca

5

Mechanism of formation and development of a latent photographic image. P. D. Dankov and A. A. Kartsev. *Compt. rend. acad. sci. U. R. S. S.* 36, 776-7 (1942) (in English); cf. *C. A.* 34, 2289⁹.—Monocrystal. AgBr layers, for subsequent progressive reduction by means of an ordinary hydroquinone developer, were prepd. by introducing the fused salt between 2 glass plates, cooling them slowly and then breaking away 1 of the plates. X ray, and also microscopic, examns. showed the films to be regular in structure. At an early stage of development, many minute crystals could be seen as squares or rhombs, under the microscope, each usually (particularly on slow development) having a thin, dimmer addnl. layer. Later, the growing crystals met and fully covered the surface. The x-ray study of the underdeveloped layers is being continued, and this study, together with details of the effects on development, will be described in another paper. [No mention is here made of any intermittent exposure, or of the light conditions prior to and during development.]

K. M. Nedbal

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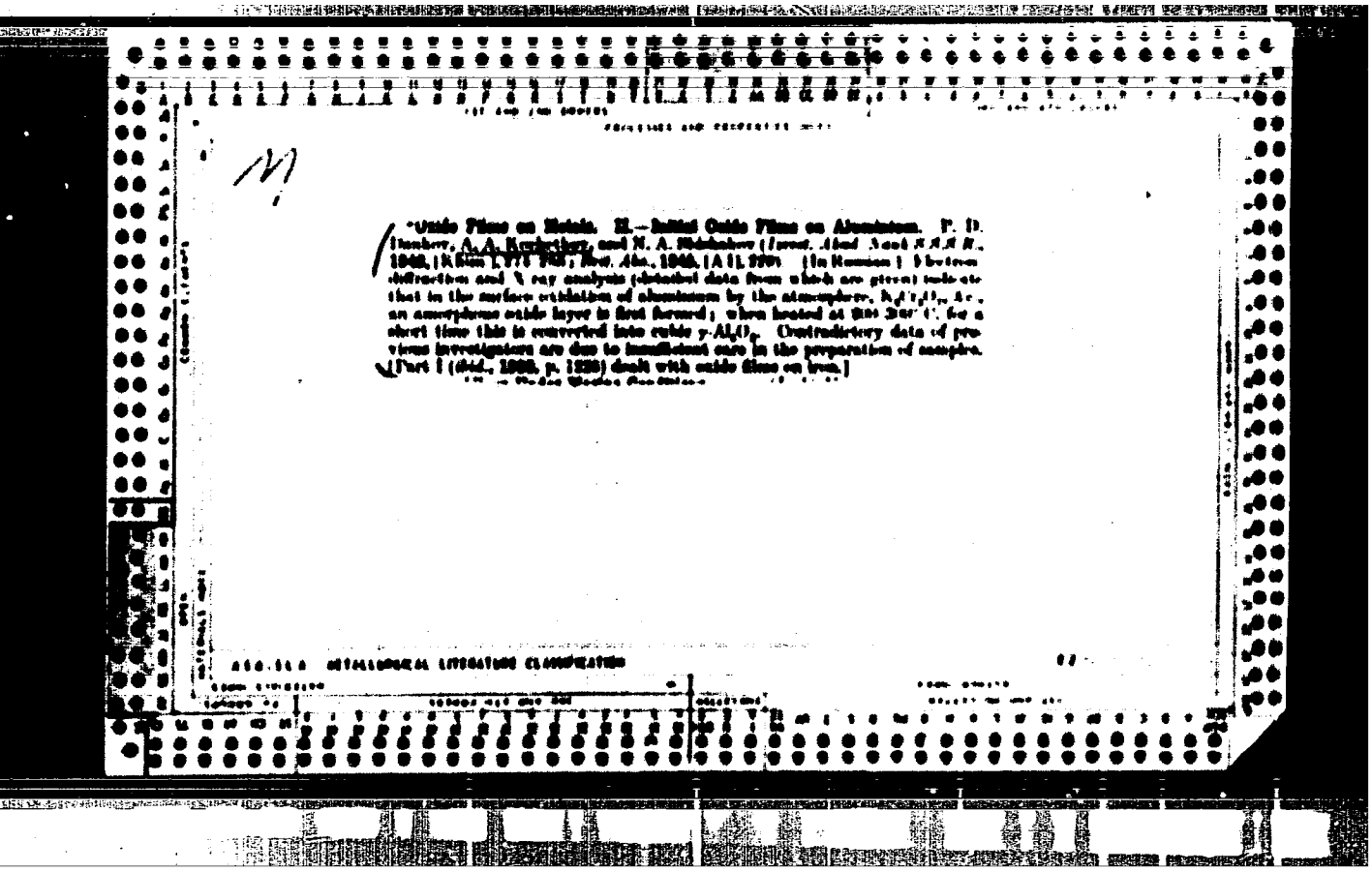

"Oxide Films on Metals. II.—Initial Oxide Films on Aluminium. P. D. Hanbov, A. A. Kruglikov, and N. A. Shishakov (*Compt. Rend. Acad. Sci. U.R.S.S.*, 1948, [N.S.] **LVII** 791; *Rev. Alu.*, 1948, [A] **I**, 220). [In Russian.] Electron-diffraction and X-ray analysis (detailed data from which are given) indicate that in the surface oxidation of aluminium by the atmosphere, hydrated Al$_2$O$_3$, i.e., an amorphous oxide layer is first formed; when heated at 200–250° C. for a short time this is converted into cubic γ-Al$_2$O$_3$. Contradictory data of previous investigators are due to insufficient care in the preparation of samples. [Part I (*ibid.*, 1938, p. 1220) dealt with oxide films on iron.]

A60-144 METALLURGICAL LITERATURE CLASSIFICATION

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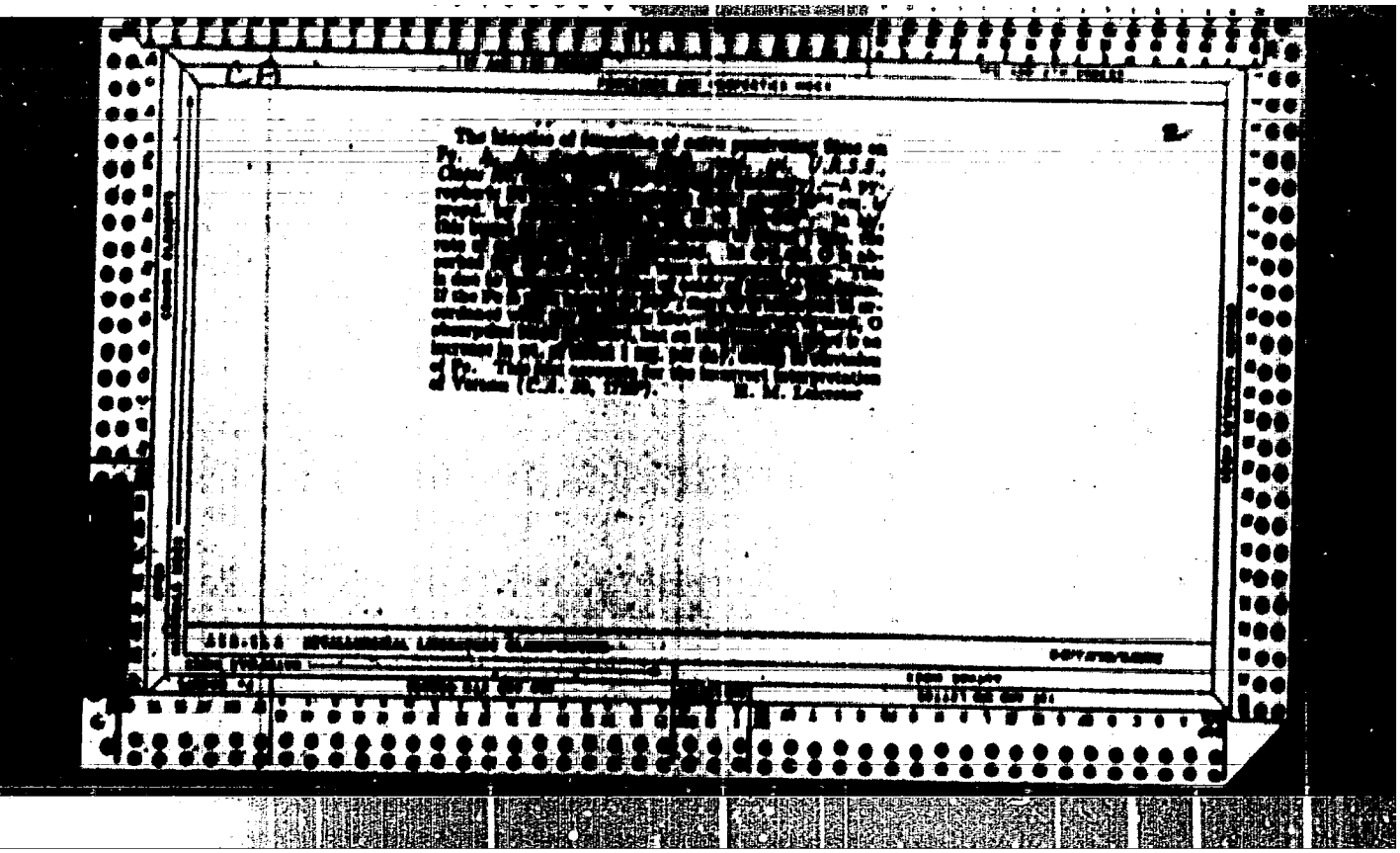

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, Aleksandr Dmitriyevich, podpolkovnik, zhurnalist; MURAV'YEV, A.I., polkovnik, red.; CHAPAYEVA, R.I., tekhn. red.

[Light from atop the hill] Svet s vershiny. Moskva, Voen.izd-vo M-va oborony SSSR, 1961. 56 p. (MIRA 15:2)
(Soldiers)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A. I.

36353. KOCHETKOV, A. I. -- Ot pervykh uspekhov k novym pobedam (chuguyevsk. lesozashchitnaya stantsiya khar'k. obl.) les i step', 1949, No. 7, s 57-60

SO: Letopis' Zhurnal'nykh Sta tey, No. 49, 1949

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHERKOV, A.I.

Certain theoretical generalisations of the formulas of spherical and practical astronomy. Trudy TGU 144:125-147 '59. (MIRA 13:6)

(Astronomy)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A. I.

USSR/Astronomy - Bibliography Dissertations

Sep/Oct 53

"Bibliography. Index to Astronomical Literature Published in the USSR in May/June 1953," Yu. O. Perel'

Astron Zhur, Vol 30, No 5, pp 572-576

Lists 7 monographs (books, brochures, symposia), 3 ephemerides, 9 'Trudy' (Works) of institutions, 34 articles from 16 periodicals, 9 articles from 7 dailies and gazettes, 2 bibliographies, and 4 author abstracts of dissertations. The 4 dissertations are: 1. M. P. Kazachevskiy, Cand Phys-Math Sci, "Photometric Determination of the Reflectivity of the Terrestrial Globe," Alma-Ata, 1953, 8pp, 120 copies, Acad Sci Kazakh SSR, Astrophys Inst. 2. S. O. Slyusarev, Cand Phys-Math Sci, "Wolf-Rayet Stars," Leningrad, 1953, 8pp, 100 copies, Leningrad U im Zhdanov. 3. P. N. Kholopov, Cand Phys-Math Sci, "Structure of Globular Stellar Clusters," Moscow, 1953, 8pp, 110 copies, Moscow State U, Astron Inst im Shternberg. 4. A. I. Kochetkov, Cand Tech Sci, "Development of a New System of Spherical Coordinates and Formulas for the Computation of Astronomical Observations," Moscow, 1953, 100 copies, Moscow Inst of Engineers of Geodesy, Aerial Photography, and Cartography.

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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A.K.; TRUNOV, N.A.

[Casting bronze bushings into a mold with a metal core] Otlivka bronzovykh vtulok v kokil' s metallicheskim sterzhnem. Opyt kollektivnoi stakhanovskoi brigady P.A. Shumova. Kovrovskii ekskavatornyi zavod. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1952. 13 p. (MLRA 6:5)

1. Kovrovskiy ekskavatornyy zavod. (Founding)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

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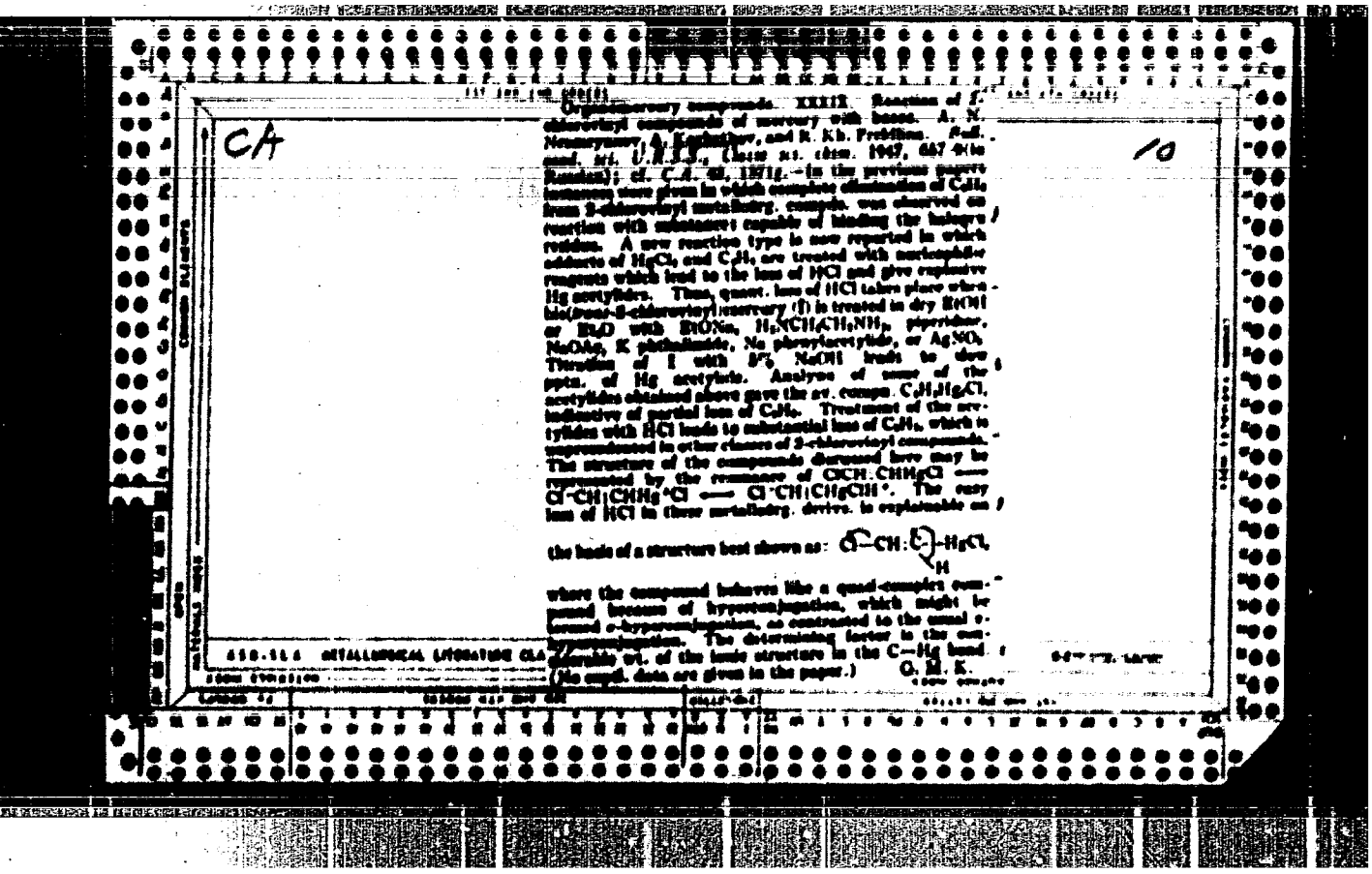

CA

10

Organomercury compounds. XXXIII. Reaction of β-chlorovinyl compounds of mercury with bases. A. N. Nesmeyanov, A. I. Ginzburg, and R. Kh. Freidlina. Acad. sci. U.S.S.R., Chem. sci. (trans. 1947, 667-9(in Russian); cf. C.A. 40, 1971).—In the previous papers numerous were given in which complete elimination of C_2H_2 from β-chlorovinyl metalloorg. compds. was observed on reaction with substances capable of binding the halogen residue. A new reaction type is now reported in which adducts of $HgCl_2$ and C_2H_2 are treated with nucleophilic reagents which lead to the loss of HCl and give explosive Hg acetylides. Thus, quant. loss of HCl takes place when bis(β-trans-β-chlorovinyl)mercury (I) is treated in dry EtOH or EtOH with EtONa, $H_2NCH_2CH_2NH_2$, piperidine, NaOAc, K phthalimide, Na phenylacetylide, or $AgNO_3$. Titration of I with H^+, NaOH leads to the ppts. of Hg acetylide. Analyses of some of the acetylides obtained above gave the av. compn. $C_2H_2HgCl_2$, indicative of partial loss of C_2H_2. Treatment of the acetylides with HCl leads to substantial loss of C_2H_2, which is unprecedented in other classes of β-chlorovinyl compounds. The structure of the compounds discussed here may be represented by the resonance of ClCH:CHHgCl ⟷ Cl⁻CH|CHHg⁺Cl ⟷ Cl·CH|CHgCl·. The easy loss of HCl in these metalloorg. derivs. is explainable on the basis of a structure best shown as:

where the compound behaves like a quasi-complex compound because of hyperconjugation, which might be termed σ-hyperconjugation, as contrasted to the usual π-hyperconjugation. The determining factor in the unstability of the ionic structure in the C—Hg bond (No expdl. data are given in the paper.)

O. M. K.

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, Aleksandr K.

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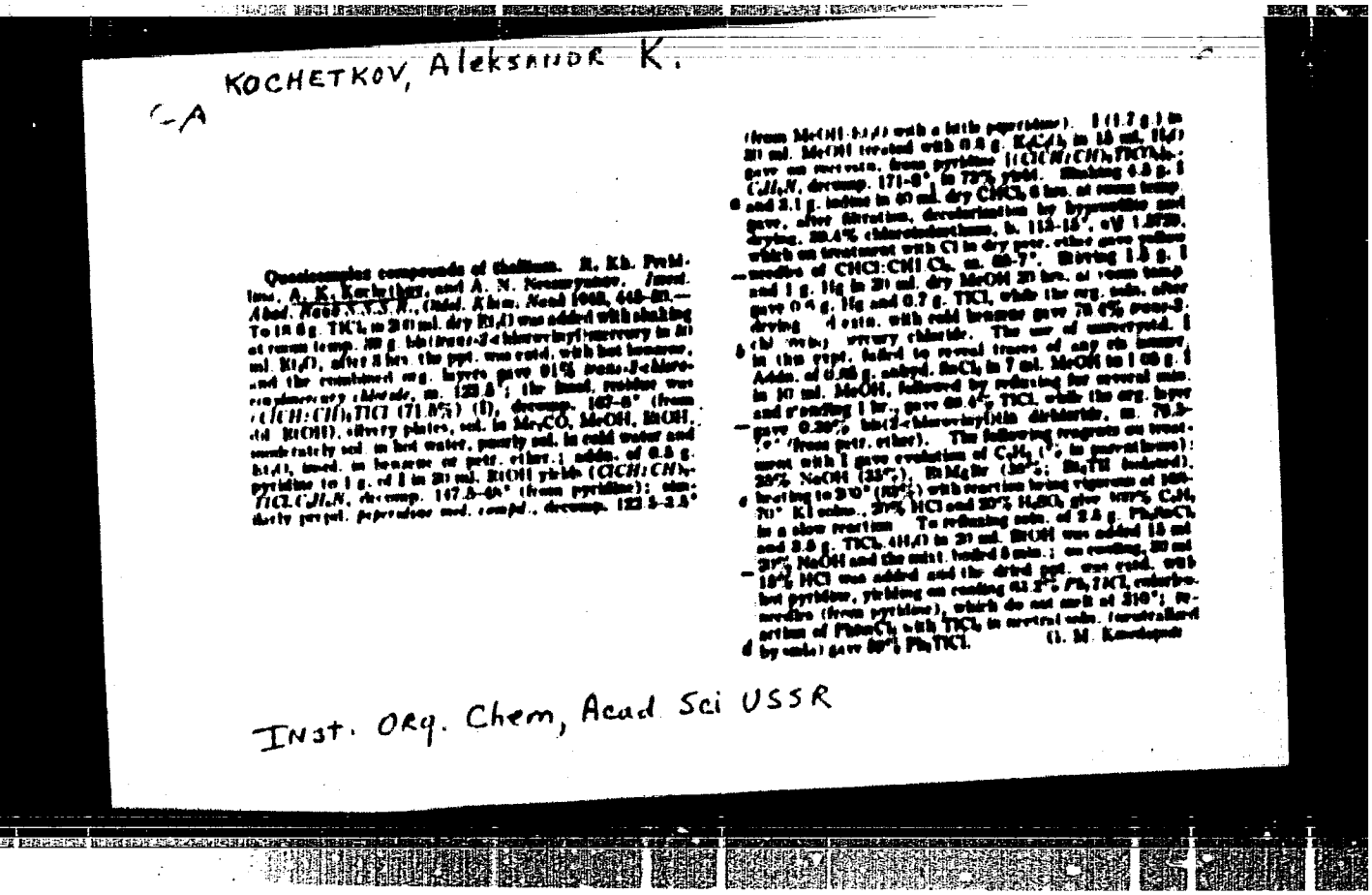


Inst. Org. Chem, Acad Sci USSR

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

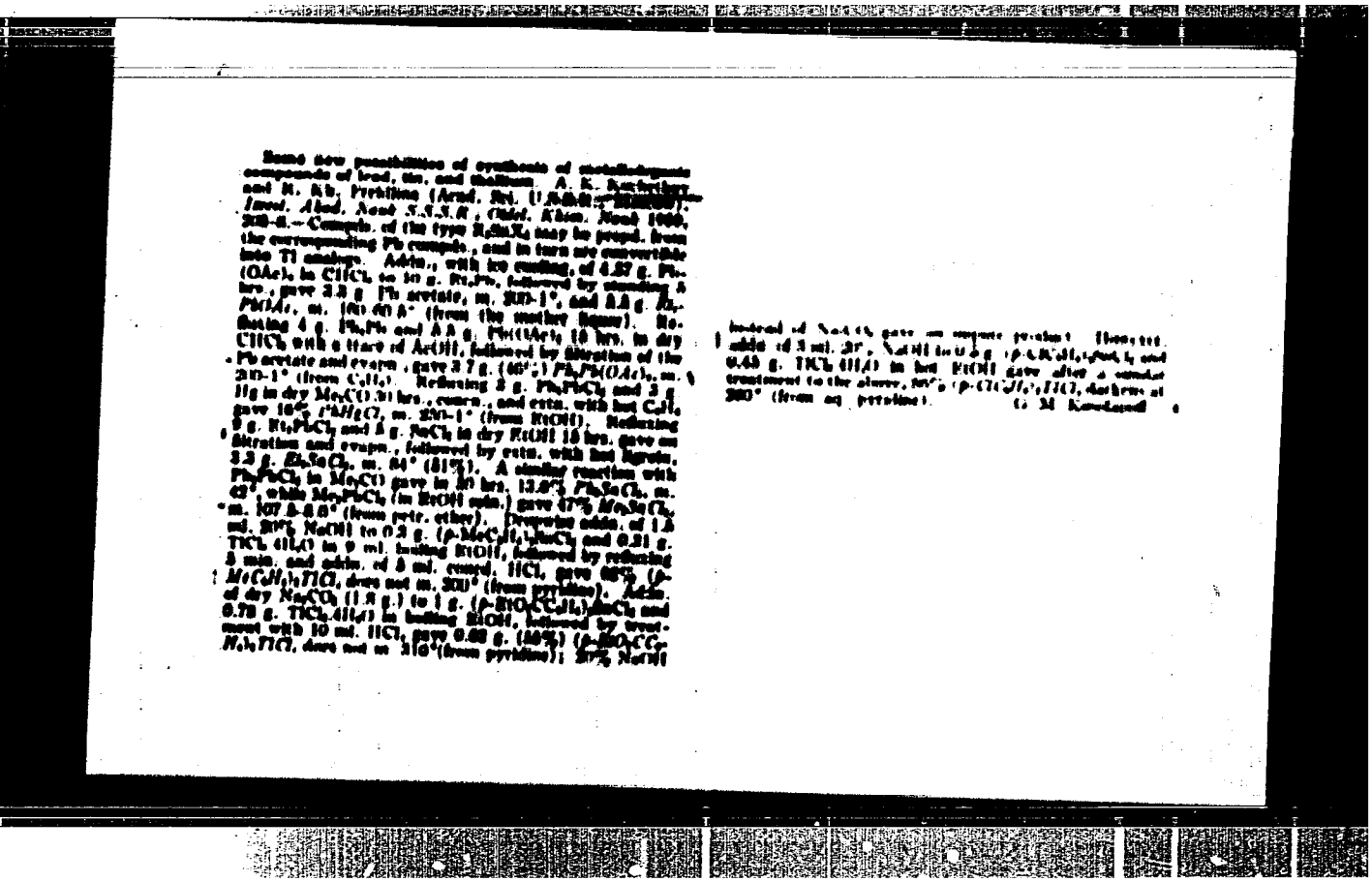
KOCHETKOV, A. K.

Mbr., Inst. Org. Chem., Acad. Sci., -1949- (submitted 1 Aug. '49)

"1,6-Addition of Mesitylmagnesium Bromide to the Acetate of Dimethylvinylcarbinol," Is. Ak. Nauk SSSR, Otdel. Khim. Nauk, No. 6, 1949. Co-authors: Nesmeyanov, A. N., & Freydlina, R. Kh.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0



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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

NESMEYANOV, A. N.; FREYDLINA, R. Kh.; KOCHESHKOV, A. K.

Dimethylvinyl Carbinol Acetate

1, 6-Addition of mesitylmagnesium bromide to dimethyl vinylcarbinol acetate. Uch. zap. Mosk. un., No. 132, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 1952, Uncl.

2

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A. K.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A. P.

"Propagation of Elastically Viscous-Plastic Waves of Shear Upon Transverse Impact Against a Plate." Thesis for degree of Cand. Physicomathematical Sci. Sub 24 Jun 49, Inst of Mechanics, Acad Sci USSR.

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHSTKOV, A. M.

USSR/Physics - Elasticity Mar/Apr 50
Mechanics

"Propagation of Elasticoviscoplastic Waves of Displacement (Shear) in a Plate," A. M. Kochstkov, Inst of Mech, Acad Sci USSR, Moscow, 6 pp

"Prikl Matemat i Mekh" Vol XIV, No 2

Investigates propagation of displacement (shear) waves in infinite plate, possessing elasticoviscoplastic properties, for the case where the plate suffers transverse blow by rigid cylinder. Problem was previously considered by F. A. Baikhilyan,

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USSR/Physics - Elasticity (Contd) Mar/Apr 50

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those work employed different stress-strain relations (vide "Viscoplastic Flow for a Blow by a Cylinder on a Plate," Prikl Matemat i Mekh," Vol XII, No 1, 1948). Submitted 15 Oct 49.

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A. M. 166746

USSR/Mathematics - Approximation Jul/Aug 50
Physics - Armor Piercing

"Approximate Solution of Certain Problems of Nonstationary Motion of a Viscoplastic Medium," A. M. Kochetkov, Inst of Mech, Acad Sci USSR, Moscow

"Prikl Matemat i Mekh" Vol XIV, No 4, pp 433-436

Considers two subject problems: (a) problem of blow by hard cylinder on plate as originally studied by F. A. Baibakiyan in "Viscoplastic Flow in a Blow of a Cylinder on a Plate" in

166746

USSR/Mathematics - Approximation Jul/Aug 50
(Contd)

"Prikl Matemat i Mekh" Vol XII, No 1, 1948, and (b) problem of rotary motion of viscoplastic medium. Submitted 3 Apr 50.

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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

Elasticity and Plasticity, Soil Mechanics (1759)
Inzhenernyy Sbornik, Vol 15, 1953, pp 177-180. "Stress Condition of a Wedge Under the Action of Hydrostatic Pressure."

The problem is solved on the assumption that the material of the wedge is incompressible, and the intensity of stresses S and deformations E are connected by the function S = kE^u where k and u are constants of the material.

SO: Referativnyy Zhurnal--Matematika, No 1, Jan 54;(W-30785, 28 July 1954)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

27851

24.4200 2607, 1327, 1103 S/508/60/029/000/009/012
D225/D303

AUTHOR: Kochetkov, A.M. (Moscow)

TITLE: Determining the pressure on elastic infinite plates, with an elastic medium pressed between them

PERIODICAL: Akademiya nauk SSSR. Inzhenernyy sbornik, v. 29, 1960, 92-97

TEXT: The aim of the paper is to find the normal component σ of the pressure, perpendicular to the line of contact of the elastic medium pressed between two parallel rough walls. The deformation considered is a plane one. The author considers first the infinite region, bounded by two parallel planes, for which the tangential tension τ_0 on the interval $-1 \leqslant x \leqslant 1$ is given. On the infinite intervals $1 \leqslant x \leqslant \infty$ and $-\infty \leqslant x \leqslant -1$ the walls are perfectly smooth. For such a case the boundary conditions are given by

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

Determining the pressure ...

$$
\begin{aligned}
&-\infty \leq x \leq \infty, && v^0 = \mp \frac{k}{e}\,\sigma_y^0 \\
&-\infty \leq x \leq -1, && \tau_{xy}^{\varrho} = 0 \\
&-1 \leq x \leq 1, && \tau_{xy}^{\varrho} = \mp \tau_0 \\
&1 \leq x \leq \infty, && \tau_{xy}^{\varrho} = 0
\end{aligned}
\qquad (1)
$$

Functions of the tension are taken in the form of Fourier integrals

$$\varphi(x,y) = \int_{-\infty}^{\infty} F_1(\alpha, y)\cos \alpha x \, d\alpha + \int_{-\infty}^{\infty} F_2(\alpha, y)\sin \alpha x \, d\alpha \qquad (2)$$

Card 2/7

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Determining the pressure ...

where $P_1(x,y)$ satisfies

$$P_1(\alpha, y) = A_1 ch(\alpha y) + B_1 sh(\alpha y) + C_1(\alpha y) ch(\alpha y) + D_1(\alpha y) sh(\alpha y) \quad (3)$$

Tension components then have the form

$$\sigma_x^0 = -\int_{-\infty}^{\infty} F_1'(\alpha, y)\cos\alpha x\, d\alpha + \int_{-\infty}^{\infty} F_2'(\alpha, y)\sin\alpha x\, d\alpha,$$

$$\sigma_y^0 = -\int_{-\infty}^{\infty} \alpha^2 F_1(\alpha, y)\cos\alpha x\, d\alpha - \int_{-\infty}^{\infty} \alpha^2 F_2(\alpha, y)\sin\alpha x\, d\alpha, \quad (4)$$

$$\tau_{xy}^0 = -\int_{-\infty}^{\infty} \alpha F_1'(\alpha, y)\sin\alpha x\, d\alpha - \int_{-\infty}^{\infty} \alpha F_2'(\alpha, y)\cos\alpha x\, d\alpha.$$

Card 3/7

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Determining the pressure ...

By substitution of expression (4) and

$$Eu^0 = \int_{-\infty}^{\infty} \left[F_1'(a, y) + \mu a^2 F_1(a, y)\right] \frac{\sin ax}{a}\, da -$$

$$- \int_{-\infty}^{\infty} \left[F_2'(a, y) + \mu a^2 F_2(a, y)\right] \frac{\cos ax}{a}\, da, \qquad (5)$$

$$Ev^0 = - \int_{-\infty}^{\infty} \left[(2+\mu) F_1'(a, y) - \frac{1}{a^2} F_1'''(a, y)\right] \cos ax\, da -$$

$$- \int_{-\infty}^{\infty} \left[(2+\mu) F_2'(a, y) - \frac{1}{a^2} F_2'''(a, y)\right] \sin ax\, da.$$

Card 4/ 7

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Determining the pressure ...

into the boundary solutions (1) for $y = \pm h$ some equations are obtained which, after using Fourier's identity, lead to equations, from which coefficients

$$A_1 = B_1 = C_1 = D_1 = B_2 = C_2 = 0$$

$$A_2 = \frac{\tilde{o}}{\tilde{\sim}} \frac{\sin \alpha l}{\alpha^3 \Delta} \left[2 \operatorname{sh} \alpha h - (1+\mu)(\operatorname{sh} \alpha h + \alpha h \operatorname{ch} \alpha h) - k\alpha^2 h \operatorname{sh} \alpha h\right]$$

$$D_2 = \frac{\tilde{o}}{\tilde{\sim}} \frac{\sin \alpha l}{\alpha^3 \Delta} \left[(1+\mu) \operatorname{sh} \alpha h + k\alpha \operatorname{ch} \alpha h\right] \qquad (10)$$

are found. The components of tensions are then expressed by formulae

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Determining the pressure ...

$$\sigma_x^0 = -\int_{-\infty}^{\infty} \alpha^2 [(A_0 + 2D_0) \operatorname{ch} \alpha y + D_0 \alpha y \operatorname{sh} \alpha y] \sin \alpha x \, d\alpha,$$

$$\sigma_y^0 = -\int_{-\infty}^{\infty} \alpha^2 [A_0 \operatorname{ch} \alpha y + D_0 \alpha y \operatorname{sh} \alpha y] \sin \alpha x \, d\alpha, \qquad (11)$$

$$\tau_{xy}^0 = -\int_{-\infty}^{\infty} \alpha^2 [(A_0 + D_0) \operatorname{sh} \alpha y + D_0 \alpha y \operatorname{ch} \alpha y] \cos \alpha x \, d\alpha.$$

In a similar way the solution is found for the region bounded by two elastic, perfectly smooth walls pressed at the infinity by a uniformly spred load with intensity σ. The component σ_{yo} along the line of contact i.e. for $y = \pm h$ could be represented by

Card 6/7

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

Determining the pressure ...

$$\sigma_{yo} = -\frac{\mu}{1+\chi}(q_0+\gamma) - \frac{2}{\pi}\{(1-\mu)I_1(\xi)-(1+\mu)I_2(\xi)\} \qquad (13)$$

where

$$I_1(\xi) = \int_0^\infty \frac{\operatorname{sh}\beta \operatorname{ch}\beta \sin\beta\eta \sin\beta\xi}{\Delta\beta}\, d\beta,$$

$$I_2(\xi) = \int_0^\infty \frac{\sin\beta\eta \sin\beta\xi}{\Delta}\, d\beta,$$

$$\Delta = 2\operatorname{sh}^2\beta + \varkappa^2(\beta + \operatorname{sh}\beta\operatorname{ch}\beta).$$

SUBMITTED: June 26, 1959

Card 7/7

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A.M. (Moskva)

An axisymmetrical problem of limit equilibrium. Inzh.zhur. 1 no.3:146-150 '61. (MIRA 15:2)

1. Institut mekhaniki AN SSSR.
(Equilibrium)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A. M. (Moskva)

Axisymmetric problem for the case of total plasticity. Inzh. zhur. 2 no.4:358-361 '62. (MIRA 16:1)

1. Institut mekhaniki AN SSSR.

(Plasticity)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

GORBUNOV-POSADOV, M.I., doktor tekhn. nauk, prof.; FEDOROV, I.V., kand. tekhn. nauk; MALYSHEV, M.V., kand. tekhn. nauk; KOCHETKOV, A.M., kand. fiziko-matem. nauk; SEREBRYANYY, R.V., kand. tekhn. nauk; GARKAVI, O.YA., kand. tekhn. nauk

"Method of limiting equilibrium in the design of slopes of earth structures for strength (precise solution)" by V.N. Maslov. Reviewed by M.I. Gorbunov-Posadov and others. Gidr. stroi. 32 no.3:46-47 Mr '62. (MIRA 16:7)

1. Institut osnovaniy Akademii stroitel'stva i arkhitektury; deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Gorbunov-Posadov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrogeologii (for Fedorov, Malyshev). 3. Institut mekhaniki AN SSSR (for Kochetkov). 4. Institut osnovaniy Akademii stroitel'stva i arkhitektury (for Serebryanyy).
(Soil mechanics)
(Maslov, V.N.)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A.M. (Moscow)

"On the construction of velocity fields and streamlines in problems of statics of loose media."

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscoe, 29 Jan - 5 Feb 64.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

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KOCHETKOV, A.M., kand.fiz.-matem.nauk

Conference on Soil Mechanics and Construction of Foundations.
Vest. AN SSSR 34 no. 2:101-102 F '64. (MIRA 17:5)

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A.M. (Moskva)

Bending of bars in case of large shifts. Insh. zhur. 5 no.6: 1081-1087 '65. (MIRA 19:1)

1. Submitted July 2, 1964.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0"

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

KOCHETKOV, A.N.

Extremum problems with nonsymmetrical additional conditions in some classes of analytic functions. Dokl. AN Arm. SSR 41 no.3: 135-139 '65. (MIRA 18:11)

1. Moskovskiy inzhenerno-stroitel'nyy institut im. V.V. Kuybysheva. Submitted February 17, 1965.

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"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723510012-0

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B112/B186

16.4600

AUTHOR: Kochetkov, A. N.

TITLE: Extremum problems for analytic functions with a positive real part satisfying some additional conditions

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 3, 1963, 508-511

TEXT: A real Banach space E, a continuous convex functional p(x) over E, a set of indices I, a subset $x = (x_\nu : \nu \in I)$ of E and a set of real numbers a_ν $(\nu \in I)$ are considered. The problem

$$f(x) \leqslant p(x),\ x \in E;\ f(x_\nu) \geqslant a_\nu,\ \nu \in I \qquad (A)$$

is called consistent if it has at least one linear functional f as solution. The set of solutions of (A) is designated by Q_A. The most important result of the study is

$$\max_{f \in Q_A} f(y) = \inf \left\{ p\left(y + \sum_i \lambda_i x_{\nu_i}\right) - \sum_i \lambda_i a_{\nu_i} \right\}; \qquad (5)$$

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Extremum problems for analytic ... S/020/63/148/003/003/037
B112/B186

It characterizes the method the author uses to solve the problem (A).

PRESENTED: August 2, 1962, by V. I. Smirnov, Academician

SUBMITTED: July 30, 1962

Card 2/2

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